DEPARTMENT OF THE NAVY FISCAL YEAR (FY) 2003 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES FEBRUARY 2002

OTHER PROCUREMENT, NAVY BUDGET ACTIVITY 4

Department of the Navy

Exhibit P-1

FY 2003 Procurement Program

APPROPRIATION: 1810N Other Procurement, Navy DATE: February 2002 TOA, \$ IN MILLIONS (DOLLARS) ------S FY 2003 ----FY 2001---- E LINE IDENT CODE UNIT COST QUANTITY COST QUANTITY COST C ITEM NOMENCLATURE NO -----_____ BUDGET ACTIVITY 04: Ordnance Support Equipment Ship Gun System Equipment 99 5110 Gun Fire Control Equipment 24.7 4.2 27.1 U 100 5112 NAVAL FIRES CONTROL SYSTEM 5.7 U .6 Ship Missile Systems Equipment 101 5237 NATO Seasparrow 7.8 10.6 41.4 U 102 5238 RAM GMLS 35.3 31.6 23.9 U 103 5239 Ship Self Defense System 9.2 39.0 47.2 U 104 5246 AEGIS Support Equipment 155.7 U 43.8 162.2 105 5250 Surface TOMAHAWK Support Equipment 67.9 60.4 53.6 U 106 5255 Submarine TOMAHAWK Support Equip 2.8 3.0 5.3 U 107 5260 Vertical Launch Systems 6.6 6.8 6.5 U FBM Support Equipment 108 5355 Strategic Platform Support Equip 2.9 9.7 - U 109 5358 Strategic Missile Systems Equip 164.9 127.0 75.0 U Α ASW Support Equipment 110 5420 SSN Combat Control Systems 19.4 40.4 46.3 U 111 5431 Submarine ASW Support Equipment 3.4 5.9 7.5 U 112 5449 Surface ASW Support Equipment 13.0 7.3 3.5 U 113 5455 ASW Range Support Equipment 6.0 6.8 7.4 U Other Ordnance Support Equipment 114 5509 Explosive Ordnance Disposal Equip B 8.3 9.3 7.8 U

* ITEMS UNDER \$50,000 PAGE N- 9

UNCLASSIFIED

Department of the Navy

Exhibit P-1

FY 2003 Procurement Program

APPROPRIATION: 1810N Other Procurement, Navy DATE: February 2002 TOA, \$ IN MILLIONS (DOLLARS) -----S IDENT FY 2003 ----FY 2001---- E CODE UNIT COST QUANTITY COST QUANTITY COST C LINE NO ITEM NOMENCLATURE -----_______ ____ 115 5543 Items Less Than \$5 Million A 5.3 5.7 3.8 U Other Expendable Ordnance 116 5530 Anti-ship Missile Decoy System 36.9 27.3 28.0 U A 117 5660 Surface Training Device Mods A 7.5 6.6 U 118 5661 Submarine Training Device Mods A 33.6 20.6 17.3 U ---------------479.8 605.1 TOTAL Ordnance Support Equipment 569.4

Fiscal Year 2003 Budget Estimates Budget Appendix Extract Language

OTHER PROCUREMENT, NAVY (OPN)

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of not to exceed [152] 141 passenger motor vehicles for replacement only, and the purchase of [five] 3 vehicles required for physical security of personnel, notwithstanding price limitations applicable to passenger vehicles but not to exceed 0\$200,000 \$240,000 per unit for [two units] one unit and not to exceed [\$115,000] \$125,000 per unit for the remaining [three] two units; expansion of public and private plants, including the land necessary therefor, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, [\$4,270,976,000] \$4,347,024,000, to remain available for obligation until September 30, [2004] 2005, of which \$19,869,000 shall be for the Naval Reserve. (10 U.S.C. 5013, 5063; Department of Defense Appropriations Act, 2002.)

	BU	DGE	T ITEM JUST	TIFICATION :	SHEET			DATE:			
			P-4	40					Februa	ry 2002	
APPROPRIATION/BUDGET ACTIV	/ITY					P-1 ITEM NOM	IENCLATURE	•			
Other Procurement, Navy/B	A-4 O	rdnai	nce Support	t Equipment		GUN FIRE CO	ONTROL EQU	IPMENT (GFC	E) - 5110		
Program Element for Code B Items:						Other Related I	Program Elemer	nts			
										 	
		ID Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY											
COST											
(In Millions)			\$4.2	\$24.7	\$27.1	\$21.7	\$36.9	\$33.7	\$35.6	CONT	CONT
SPARES COST											
(In Millions)											
EMERGENCY RESPONSE FUND											·
(In Millions)				2.1*							

^{*} ERF, D Funding \$2.1M is to procure Night Vision Goggles and related night vision equipment.

Description: (U) This program provides for procurement of equipment, materials and Ordnance Alterations (ORDALTs) to improve combat effectiveness of and maintain logistic supportability of Gun Fire Control Systems (GFCS) installed on 65 ships (65 MK 86) and 8 shore installations (8 MK 86).

UK009 Switchboard ORDALTs - Procures ORDALTs for GFCS MK 86 Switchboards to improve weapon and combat system data switching capability; provides concurrent changes with other ORDALTs; and provides technical documentation upgrades required by interfacing system/equipment ORDALTs.

UK024 RMA (Reliability, Maintainability and Availability) MK 86 - Procures product Improvement ORDALTs for GFCS MK 86 to correct problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production. Installations to be in ship classes with MK 86 configuration. MK 86 ORDALTs were procured in prior years and are being installed in blocks to reduce total installation costs.

UK039 Night Vision Devices - Procures new Night Vision Devices (NVD) for ships and shore sights. Provides repair or replacement of NVD and NVD Test Equipment.

UK040 AN/SPQ-9B Radar - Procures AN/SPQ-9B Radars to add Anti-Ship Missile Defense (ASMD) capability which increases the radar's capability to detect and track low-flying, very small cross-section targets in natural and man-made clutter. Installations to be performed by AIT in the following ship classes: QTY=22 CG-47; QTY = 51 DDG-51; QTY=1 Trainer; QTY = 1 LBTS; QTY=9 CVN; QTY=7 LHD; QTY=1 DD-963 class ship; and QTY=1 AEGIS Combat System Engineering Development Site (CSEDS).

UK040 AN/SPQ-9B GFM - U.S. Air Force APG-68 Transmitter used in AN/SPQ-9B Radar configuration.

UK042 AN/SPQ-9B Engineering Change Proposals (ECPs) - Procures product improvement ECPs; corrects problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production for AN/SPQ-9B Radar.

UK051 MK 46 Optical Sight Systems (OSS) Product Improvement - Procure Product Improvements for MK 46 OSS on DDG 51 Class ships. The MK 46 OSS is an integral element of the MK 34 gun weapon system. These improvements provide enhanced force protection capabilities and reduce total ownership costs by improved reliability and supportability of inservice equipment systems.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 99 PAGE NO. 1

UNCLASSIFIED

DD Form 2454, JUN 86

P-40 APPROPRIATIONBUDGET ACTIVITY Procurement, NavyBA-4 Ordnance Support Equipment CIN FIRE CONTROL EQUIPMENT (GFCE) - 5110 Other Procurement, NavyBA-4 Ordnance Support Equipment Other Related Program Elements UK800 AN/SPQ-9B It.S/Test Support - Supports AN/SPQ-9B Radar Developmental and Operational Testing. UK830 AN/SPQ-9B Production Support - Supports AN/SPQ-9B Radar program and contractor associated areas. UKSIN/UKSIN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Floet Modernization Program - NON-FMP) P-1 SHOPPING LIST CLASSIFICATION: CLASSIFICATION:			T
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-4 Ordnance Support Equipment Program Element for Code B Items: Other Related Program Elements UK800 AN/SPQ-9B IL-S/Test Support - Supports AN/SPQ-9B Radar Developmental and Operational Testing. UK800 AN/SPQ-9B Production Support - Supports AN/SPQ-9B Radar program and contractor associated areas. UKSINUK6IN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - NON-FMP) And shore sites (Non-fleet Modernization Program - NON-FMP)	BUDGET ITEM JUSTIFICATION SHEET		DATE:
Other Procurement, Navy/BA-4 Ordnance Support Equipment Program Element for Code B Items: Other Related Program Elements UK800 AN/SPQ-9B ILS/Test Support - Supports AN/SPQ-9B Radar Developmental and Operational Testing. UK800 AN/SPQ-9B Production Support - Supports AN/SPQ-9B Radar program and contractor associated areas. UKSINUK8IN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)		T	February 2002
UK800 ANSPQ-9B ILS/Test Support - Supports AN/SPQ-9B Radar Developmental and Operational Testing. UK800 AN/SPQ-9B Production Support - Supports AN/SPQ-9B Radar program and contractor associated areas. UKSIN/UK8IN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)			UDUENT (0505) - 5440
UK800 AN/SPQ-9B ILS/Test Support - Supports AN/SPQ-9B Radar Developmental and Operational Testing. UK830 AN/SPQ-9B Production Support - Supports AN/SPQ-9B Radar program and contractor associated areas. UKSIN/UK6IN - Installation of Equipments - Provides funding to install CRDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)			
UKSIN/UKSIN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)	Program Element for Code B Items:	Other Related Program Eleme	ents
UKSIN/UKSIN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP) And shore sites (Non-fleet Modernization Program - NON-FMP)	UK800 AN/SPQ-9B ILS/Test Support - Supports AN/SPQ-9B Radar Developmental and O	perational Testing.	
FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)	UK830 AN/SPQ-9B Production Support - Supports AN/SPQ-9B Radar program and control	ractor associated areas.	
D. I. SHADDING LIST. CLASSIS/ATION:	UK5IN/UK6IN - Installation of Equipments - Provides funding to install ORDALTS and AI FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)	N/SPQ-9B Radars, field changes	and other alterations in ships (Fleet Modernization Program -
D. A. SULODDING, LIST. CLASSISTEATION:			
D. 4. SMODDING LIST CLASSISIDATIONI.			
D. 4. SHODDING LIST. CLASSISICATION:			
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DD Form 2454, JUN 86 ITEM NO. 99 PAGE NO. 2

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS DATE: February 2002 P-5 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE/SUBHEAD Other Procurement, Navy/BA-4 Ordnance Support Equipment **GUN FIRE CONTROL EQUIPMENT (GFCE) - 5110** TOTAL COST IN THOUSANDS OF DOLLARS COST **ELEMENT OF COST** ID FY 2001 FY 2002 FY 2003 CODE Code **Unit Cost Total Cost** Quantity **Unit Cost Total Cost Unit Cost Total Cost** Quantity Quantity **EQUIPMENT UK009** Switchboard O/A's MK 86 Α 1,803 1,027 1,156 UK024 RMA MK 86 1,208 UK039 467 1,383 Night Vision Devices UK051 7,000 MK 46 OSS Product Improvement **INSTALL** 360 241 124 UK5IN Installation of Eqmt.-- FMP (RMA MK 86) 52 **UK6IN** Installation of Egmt-- NON FMP (RMA MK 86) 2,682 2,651 9,519 **EQUIPMENT** UK040 4,264 12,792 4,813 14,439 AN/SPQ-9B Radar Α 400 1,200 400 1,200 **UK040** GFM--APG-68 Radar Transmitter Α 7,000 744 UK042 Engineering Change Proposals (ECPs) 1,026 854 1,000 **UK830** AN/SPQ-9B Production Support 210 208 206 UK900 AN/SPQ-9B Consulting Services **INSTALL** UK5IN Installation of Eqmt.-- FMP (AN/SPQ-9B) Installation of LW Antenna ECP - FMP 295 295 UK5IN **UK6IN** Installation of Eqmt -- NON FMP (AN/SPQ-9B) **UK6IN** Installation of LW Antenna ECP --NON FMP (AN/SPQ-9B) 1,531 22,054 17,589

DD FORM 2446, JUN 86 CLASSIFICATION:

UNCLASSIFIED

27,108

24,705

4,213

UNCLASSIFIED

CLASSIFICATION:

IVITY Navv/B)			C. P-1 ITEM NOM	ENCLATURE			February 20	02
	0	_		C. P-1 ITEM NOM	IENCI ATLIPE				
	A-4 Olu	nance Support I	Equipment			IT (OFC		SUBHEAD	041117
UANTITY	UNIT	LOCATION	RFP ISSUE	CONTRACT METHOD	CONTRACTOR	AWARD	DATE OF FIRST	SPECS AVAILABLE	DATE REVISIONS
	(000)	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
3	4,264	NAVSEA	Jun-02	SS/FFP	NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY	SEP 02	MAR 04	YES	
3	400	NSWC CRANE	Jul-02	MILSTRIP	HILL AIR FORCE ODGEN, UTAH	SEP 02	MAY 02	YES	
3	4,813	NAVSEA	Jan-03	SS/FFP	NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY	NOV 04	MAR 04	YES	
3	400	NSWC CRANE	Mar-03		HILL AIR FORCE ODGEN, UTAH	NOV 04	MAY 04	YES	
	3 3	3 4,264 3 4,813	COST (000) 3 4,264 NAVSEA 3 400 NSWC CRANE 3 4,813 NAVSEA	3 4,264 NAVSEA Jun-02 3 400 NSWC CRANE Jul-02 3 4,813 NAVSEA Jan-03	UANTITY UNIT COST (000) 3 4,264 NAVSEA Jun-02 SS/FFP 3 400 NSWC CRANE Jul-02 MILSTRIP	UANTITY UNIT COST (000) 3 4,264 NAVSEA Jun-02 SS/FFP NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY 3 400 NSWC CRANE Jun-03 SS/FFP NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY 3 4,813 NAVSEA Jan-03 SS/FFP NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY 4 4,814 NAVSEA Jan-03 SS/FFP NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY 4 4,815 NAVSEA Jan-03 HILL AIR FORCE	UANTITY UNIT COST (000) 3 4,264 NAVSEA Jun-02 SS/FFP NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY NOGEN, UTAH NAVSEA Jun-03 SS/FFP NORTHROP GRUMMAN NORDEN, INC. MELVILLE, NY NORTHROP GRUMMAN NORDEN, INC. MELVILLE, NY NORTHROP GRUMMAN NORDEN, UTAH NORTHROP GRUMMAN NORDEN, UTAH NORTHROP GRUMMAN NORDEN, UTAH NORTHROP GRUMMAN NORDEN, UTAH NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY HILL AIR FORCE NOV 04	UANTITY UNIT COST (000) 3 4,264 NAVSEA Jun-02 SS/FFP NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY 3 4,813 NAVSEA Jun-03 SS/FFP NORTHROP GRUMMAN NORDEN, UTAH NORDEN SYSTEMS, INC. MELVILLE, NY NORTHROP GRUMMAN NORDEN, UTAH NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY HILL AIR FORCE NOV 04 MAY 04	UANTITY UNIT COST OF PCO DATE DATE METHOD & TYPE AND LOCATION DATE DELIVERY NOW 3 4,264 NAVSEA Jun-02 SS/FFP NORTHROP GRUMMAN NORDEN SYSTEMS, INC. MELVILLE, NY 3 400 NSWC CRANE Jul-02 MILSTRIP HILL AIR FORCE ODGEN, UTAH 3 4,813 NAVSEA Jan-03 SS/FFP NORTHROP GRUMMAN NOV 04 MAR 04 YES 4 400 NSWC CRANE Mar-03 HILL AIR FORCE NOV 04 MAY 04 YES

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87

UNCLASSIFIED ITEM NO. 99 PAGE NO. 4

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: <u>AN/SPQ-9B Radar</u> TYPE MODIFICATION: <u>N/A</u> MODIFICATION TITLE: <u>AN/SPQ-9B Radar</u>

DESCRIPTION/JUSTIFICATION:

Adds Anti-Ship Missile Defense mode; detects and tracks low-flying, extremely small radar cross-section targets in clutter.

DEVELOPMENT STATUS/MAJOR DEVEL	/ELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE									'/95; LB	TS D	Γ 10/98;	DT/O	T FY03;	MS	III FY03				
	FY 20	000 & Prio	· F\	′ 2001	F۱	′ 2002	FY	2003	F۱	<u> 2004</u>	F١	2005	FΥ	′ 2006	F۱	/ 2007		<u>TC</u>	то	TAL
	QTY	\$	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E	2	71.1	0	0.0	0	4.9	0	4.0	0	2.0	0	0.0	0	0.0	0	0.0	0	0.0	2	81.9
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	2	9.8	0	0.0	3	4.3	3	4.8	1	5.4	4	5.0	4	5.2	5	4.8	70	369.5	92	408.8
EQUIPMENT NONRECURRING		9.4																		9.4
ENGINEERING CHANGE ORDERS		4.9		0.0		7.0		1.1		0.8		0.8		0.9		0.9		4.0		20.4
DATA				0.0																0.0
TRAINING EQUIPMENT	1	4.5			2	9.3													3	13.8
SUPPORT EQUIPMENT																				0.0
PRODUCTION SUPPORT		7.5		1.0		1.0		1.0		1.0		0.9		0.9		0.9		5.0		19.1
OTHER (ILS/TEST SUPPORT)		2.6		0.0																2.6
OTHER (CSS)		1.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2		1.0		3.6
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST		1.9		0.5		0.0		0.0		0.7		2.3		0.8		3.2		63.7		73.0
TOTAL PROCUREMENT		41.7		1.7		21.8		7.1		8.1		9.2		8.0		10.0		443.1		550.8

ITEM NO. 99 PAGE NO. 5

CLASSIFICATION: UNCLASSIFIED

	TION: UNCLA	SSIFIE																											
P3A (Continu	ied)			INDI	VIDU	AL N	MODIFI	CAT	ION (Conti	nued))																	
MODELS OF	SYSTEMS AF	FECT <u>EI</u>	D: AN	I/SPQ	-9B F	Rada	<u>ır</u> N	ИOD	IFICA	ATION	TITLE	E:	AN/S	SPQ-9	9B Ra	dar													
-	ON INFORMAT	-	AL	TERA	OITA	N INS	STALLA	TIO	N TE	AM (A	JT)																		
ADMINISTR <i>A</i>	ATIVE LEADTII	ME:		/lonth	S	-	PROI		TION	LEAD	OTIME	<u>:</u>			16 I	Month		-											
CONTRACT DELIVERY D		Y 2001: Y 2001:				-	FY 20 FY 20	-		Nov Mar							FY 2 FY 2			v 02 r 04			-						
DELIVERY	AIE. F	1 2001.	11//	4		-	FT Z	<i>1</i> 02.		iviai	03						ΓΙZ	003.	IVIA	1 04									
														in Mi															
	Cost:		Pr Qty	rior Ye		Qty	FY 200°		P Qty	Y 200 \$		Qty	Y 200)3 }	Qty	Y 200) <u>4 </u>	Qty	Y 2005 \$	Qty	Y 2006		Qty	Y 2007 \$		To Co	omplete \$	Qty	Total \$
			Qty		₽	Qly	φ		Qty	4	•	Qty		Þ	Qty	•	Þ	Qly	Φ	Qty	φ		Qly	φ		Qly	Φ	Qly	Φ
PRIOR YEA	ARS		3		2.1	1		0.3																				4	2.4
FY 2000 EQ	QUIPMENT																											0	0.0
FY 2001 EQ																												0	0.0
FY 2002 EQ															3		2.2											3	2.2
FY 2003 EQ	QUIPMENT																	3	2.	3								3	2.3
FY 2004 EQ	QUIPMENT																			1		0.8						1	3.0
FY 2005 EQ	QUIPMENT																						4		3.2			4	3.2
FY 2006 EQ	QUIPMENT																									4	3.2	4	3.2
FY 2007 EQ	QUIPMENT																									5	4.1	5	4.1
TO COMPL	ETE																									68	56	68	56.4
INSTALLA	ATION SCHEDI	ULE:																											
	FY 2000	FY 2	2001			20	002			FY 2	2003			FY 2	2004			FY:	2005		FY 2	2006			FY 2	2007		<u>TC</u>	
	& Prior 1	1 2 3	3 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4		TOTAL
In	3 () 1 (0 0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1 0	1	0	0	0	1	1	1	1	77	92
Out	3 (0 0	1 0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1 1	0	1	0	0	0	1	1	1	78	92
																									P-3A				

ITEM NO. 99 PAGE NO. 6

CLASSIFICATION: UNCLASSIFIED

MODELS OF SYSTEM AFFECTED: GFCS MK 86 TYPE MODIFICATION: Mods 9, 10, 12 MODIFICATION TITLE: MK86; Gun Fire Control Equipment ORDALTS

DESCRIPTION/JUSTIFICATION:

Provides Product Capability, Safety, and Survivability with RMA Improvements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continuous Improvements to GFCS MK 86

		00 & Prior		2001		2002		2003		2004		2005		2006		2007		<u>TC</u>		TAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS	1318	17.8	3	0.2	0	0.0	10	0.7	10	0.7	9	0.6	0	0.0	1	0.6	7	4.2	1358	24.8
INSTALLATION KITS - UNIT COST		0.0		0.0		0.0		0.0												0.0
INSTALLATION KITS NONRECURRING		3.5		1.6		1.1		0.5		0.2		0.4		2.0		1.5				10.8
EQUIPMENT																				0.0
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
PRODUCTION SUPPORT																				0.0
OTHER (ILS/TEST SUPPORT)																				0.0
OTHER (CSS)																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST	1301	6.5	14	0.4	5	0.2	5	0.2	6	0.2	18	0.5	11	0.3	0	0.0	9	1.1	1369	9.4
TOTAL PROCUREMENT		27.8		2.2		1.3		1.4		1.1		1.5		2.3		2.1		5.3		45.0

ITEM NO. 99 PAGE NO. 7 CLASSIFICATION: UNCLASSIFIED

CLASSIFICA.		CLASSIFIED																								
P3A (Continu	ed)			INDIVI	DUAL	MODIFIC	CATIC	ON (Continued)																
MODELS OF	SYSTEMS	AFFECTED:	GF	CS MK	36	N	ODIF	ICA	ATION TITL	.E:	MK	86; G	un Fir	e Cor	trol E	quipn	nent ORDA	LTs					=			
INSTALLATIO			AL	TERATIO	ON INC	STALLAT	TION	TEA	AM (AIT)																	
METHOD OF						PROF	HCTI	ION	LEADTIME	Ξ.			Mor	nthe												
CONTRACT		FY 2001:	N/.	A		FY 20		1014	N/A				IVIOI	11113	FY 2	003:	N/A									
DELIVERY D	ATE:	FY 2001:	N/	A		FY 20	02:		N/A			- -			FY 2	003:	N/A			-						
											(\$ ir	Millio	ns)													
	Cost	•		rior Year		FY 2001			Y 2002		FÝ 20		_	Y 200			Y 2005		Y 2006		Y 200			omplet		Total
			Qty	/ \$	Qty	y \$	(Qty	\$	Qty		\$	Qty	;	\$	Qty	\$	Qty	\$	Qty	\$	\$	Qty	\$	Qty	\$
PRIOR YEA	RS		1301		6.5 10	D	0.2																		1311	6.
FY 2000 EQ	UIPMENT				2	1	0.2	2	0.0																6	0.
FY 2001 EQ	UIPMENT				(D	0.0	3	0.2																3	0.
FY 2002 EQ	UIPMENT																								0	0.
FY 2003 EQ	UIPMENT									5		0.2	6		0.2	2	0.0								13	0.
FY 2004 EQ	UIPMENT															12	0.4								12	0.
FY 2005 EQ	UIPMENT															4	0.1	0	0.0)					4	0.
FY 2006 EQ	UIPMENT																								0	0.
FY 2007 EQ	UIPMENT																						1	0).1 1	0.
TO COMPLI	ETE																						7	1	.0 7	1.
INSTALLA	TION SCH	1					—,				. —							1			11					T
	FY 2000	·	2001			2002	,		FY 2003		,		2004	,			2005	$\ $	FY 2006				2007		<u>TC</u>	TOTAL
In	& Prior 0	$\frac{1}{0} \frac{2}{0}$	$\frac{3}{0} \frac{3}{0}$		0 0		0	<u>1</u> 0	$\frac{2}{0} \frac{3}{0}$	<u>4</u> 0	0		<u>3</u> 0	0	0	0	3 4 0 0	0	$\frac{2}{0} \frac{3}{0}$	<u>4</u> 0	0	0	<u>3</u> 0	0	0	TOTAL 0
Out	0			- 1	0 0	•	0	0	0 0	0		0	0	0	0	0	0 0		0 0	0	0	0	0	0	0	0
0 4.1					<u> </u>		<u> </u>				ت ا						<u> </u>	ا ت			ا ا					1
		ties above refle ALTS: 13 (F)			ORDA	ALT kits i	nstall	ed.	Beginning	in FY	′95, C	RDAL	.Ts ha	ave be	en pro	ocure	d, package	d, and	l installed i	n sets	to low	ver ov	erall s	hip un	it costs.	
		ADE ORDALT																								
		ADE ORDALT																								
		DE ORDALTS:																								
- MK86 RMA-	-2 UPGRAD	DE ORDALTS:	5 (FY01	- FY07)																						

ITEM NO. 99 PAGE NO. 8

P-3A CLASSIFICATION: **UNCLASSIFIED**

UNCLASSIFIED

	BUDGET ITEM J	JUSTIFICAT	ION SHEET					DATE:	
		P-40						Februa	ry 2002
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NO	MENCLATURE				
				BLI: 5112	NAVAL FI	RES CONTR	OL SYSTEM	Л	
Other Procurement, Navy / BA-4: OTHER W	/EAPONS								
Program Element for Code B Items:			Other Related	Program Eleme	ents				
Prior ID								То	Total
Years Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program
QUANTITY									0
COST (\$M)	\$0.0	\$0.6	\$5.7	\$5.8	\$4.1	\$9.4	\$5.2		\$30.8
Initial Spares (\$M)									\$0.0

Naval Fires Control System (NFCS) is an automated mission planning and coordination system for Naval Surface Fire Support (NSFS) Weapons. NFCS will plan and coordinate the firing of the new NSFS weapon systems.

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO 100 PAGE NO 1

UNCLASSIFIED

	IATION/BUDGET ACTIVITY	P-5				Weapon Sys								DATE: Februa	ry 2002
	curement, Navy/BA-4					ID Code		MENCLATURE RES CONT	SUBHEAD	EM 5112 (1	4FC)				.,
			TOTAL COS	T IN THOUSA	NDS OF DOLI	ARS	<u> </u>								
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002			FY 2003	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
FC001 N	NFCS Phase I									2	297.5	595.0	12	324.16	3,890.0
FC002 P	Program Support														1,800.0
			0				0		0			595.0			5,690.0

UNCLASSIFIED

BUDGET PROCURE	EMENT HIST	ORY AND I	PLANNING EXHIBI	IT (P-5A)		Weapon System		A. DATE		
								Fe	bruary 20	002
3. APPROPRIATION/BUDG					C. P-1 ITEM NO				SUBHEAD	
Other Procurem	ent, Navy/I	BA-4 Ord	nance Support	Equipment	NAVAL FI	RES CONTROL SYS	TEM			
					5112 (14F	(C)				
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
		(000)								
NFCS Phase 1										
FY2002	2	297.50	NAVSEA	MAR-02	FFP	TBD	JUN-02	JUN-03	YES	
FY2003	12	324.16	NAVSEA	NOV-02	FFP	TBD	APR-03	APR-04	NO	JUL-02
12000	12	024.10	TV/TVOL/T	110 7 02			71111100	7111104	110	002 02
D. REMARKS	1			1	1	ı		l		1
J. ILIMINICO										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 100 PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDUA	L MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:					TYPI	E MODIF	FICAT	ION:				_			MOD	IFICATI	ON TI	TLE:			trol System	
																			Phas	se I		
DESCRIPTION/JUSTIFICATION:																						
Naval Fires Control System Phase 1 will be	e integra	ated in Taction	cal TO	MAHAV	VK We	apons C	Control	System	(TTWC	S) and i	nstalle	ed on CG	's and	I DDG's								
L DEVELOPMENT STATUS/MAJOR DEVELO	DPMEN	T MILESTO	NES:									_										
	FY 19	99 & Prior	FY	2000	F١	′ 2001	F۱	<u> 2002</u>	FY	2003	FY	2004	FΥ	2005	FΥ	2006	FY	2007		<u>TC</u>	TO	TAL
	QTY						QTY		QTY		QTY		QTY			\$	QTY		QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.00
<u>PROCUREMENT</u>																					1	
INSTALLATION KITS	0	0.0	0	0.0	0	0.0	2	0.6	12	3.90	13	4.10	11	3.60	28	9.40	15	5.20			81	26.8
INSTALLATION KITS - UNIT COST								0.3		0.32		0.31		0.32		0.34		0.34				0.00
INSTALLATION KITS NONRECURRING																						0.00
EQUIPMENT																						0.00
EQUIPMENT NONRECURRING																						0.00
ENGINEERING CHANGE ORDERS																						0.00
DATA																						0.00
TRAINING EQUIPMENT																						0.00
SUPPORT EQUIPMENT																						0.00
PRODUCTION SUPPORT																						0.00
OTHER (ILS/TEST SUPPORT)																						0.00
OTHER (CSS)																						0.00
INTERIM CONTRACTOR SUPPORT																						0.00
INSTALL COST				0.0																	0	0.00
TOTAL PROCUREMENT		0.0		0.0		0.0	2	0.6	12	3.90	13	4.10	11	3.60	28	9.40	15	5.20		0.00		26.80
			· ·		· ·			ITEM	100	F	AGE	4							CLA	SSIFICATIO	ON: UNCLA	SSIFIED

		В	UDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:			
				P-40							February	2002
APPROPRIATION/BU	IDGET ACTIVIT	ΓΥ					P-1 ITEM NOM	IENCLATURE				
OTHER PROCUR	EMENT, NA	VY/BA4	ORDNANC	E SUPPORT	EQUIPMENT	-		N	ATO SEASP	ARROW -	523700	
Program Element for C	Code B Items:						Other Related I	Program Elemer	nts			
							Ship Self De	efense 06047	'55N Proj 201	173		
	Prior	ID								То		
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total	
QUANTITY												
COST												
(In Millions)			\$7.8	\$10.6	\$41.4	\$21.2	\$26.1	\$19.6	\$26.3	CONT	CONT	
SPARES COST												
(In Millions)												

NATO SEASPARROW Surface Missile System (NSSMS) NATO SEASPARROW is a Self Defense AAW Shipboard Missile System.

Primary operations consist of:

- Acquiring targets from external or internal designations
- Establishing track data for Engageability Determination and Launcher/Missile Control
- Target Illumination for Missile Guidance
- Missile Firing
- Kill/Survive Assessment

Provides fully automatic operation with provisions for Operator Intervention or Override from the time of Target Designation to Missile Away. The NSSMS consists of a Fire Control System comprised of Directors; a General Purpose Digital Computer; Signal Data Converters; Transmitter Group; Operating Consoles, and an 8 Cell Launcher, which employs the surface launch variant of the Sparrow Missile. The Surface Launch Version (RIM-7) uses a Radar Homing Guidance System, with Target Illumination provided by the shipboard MK91 System Radar Directors.

When NSSMS is combined with the MK23 Target Acquisition System (TAS), they become the AN/SWY-1 Self Defense Surface Missile System for the following U.S. Navy Ships:

AOE/AORs, DD963s, Self Defense Test Ship, and shore based facilities. When the MK23 TAS is combined with RAM it becomes AN/SWY-2 on the LHA's. When NSSMS and TAS and RAM are combined it becomes the AN/SWY-3 on CV/CVNs and LHDs.

The NSSMS is a NATO Cooperative Project with 13 participating governments; Australia, Belgium, Canada, Denmark, Germany, Greece, Italy, Norway, The Netherlands, Portugal, Spain, Turkiye and the United States. The NSSMS and associated systems of the Cooperative Project were developed, produced and are supported under DoD/MoD level International Memorandum of Understanding (MOU).

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 101 PAGE NO. 1

DD Form 2454, JUN 86

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION		DATE: February 2002
	P-1 ITEM NOMENCI AT	
T, NAVY / BA 4: Ordnance Support Equipment		EASPARROW / 523700
des for engineering changes necessary to keep the MK 91 Norent with technical change requirements and obsolescence issues. Avides for the remaining development of ICW, ITMs and a SEATcapa CCS ReArchitecture upgrades current with technical change required control of the MK 91 Rearchitecture NATO SEASPARROW (one LHD and two CVNs) of the MK91 NATO SEASPARROW Guitable CVNs) of the MK91 NATO SEASPARROW Guitable CVNs	NATO SEASPARROW Guide This funding also provides for ability. It provides for engineer ements and obsolescence issue SYSTEM after a two year produided Missile Fire Control Systems	d Missile Fire Control System (GMFCS) the U.S. share of consortium efforts. ring changes necessary to keep the MK 91 es. This funding also provides for the U.S. duction break. The funding provides for the em (GMFCS) ReArchitecture upgrades. It
the SSDS MK 2 integrated ship defense suite. This effort consists o lacing the Firing Officer Console and Radar Set Console function state-of-art microprocessors, and upgrading the transmitter to soli	of replacing the computer comp nality into the Navy standard A id state technology. These mo	lex with state-of- N/UYQ-70 display consoles, replacing the odifications are part of the overall Maritime
	P-40 CONTINUATION TIVITY T, NAVY / BA 4: Ordnance Support Equipment Ovides for initial development of interactive course-ware (ICW), in the destruction of the state of the manager of	P-40 CONTINUATION IVITY P-1 ITEM NOMENCLAT

P-1 SHOPPING LIST

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86 ITEM NO. 101 PAGE NO 2

Installation of RNSSMS will be performed at the shipyards during scheduled availabilities.

	WEAPONS SYSTEM (P-5	COST AN	NALYSIS			Weapon Sy	rstem							DATE: Februa	ry 2002
APPROP	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	JRE/SUBHEA)			!	. 32.30	, =
Other P	Procurement, Navy BA-4 Ordna	nce Su	pport Equ	iipment						NATO S	EASPARC	W / 24US			
			TOTAL COS	ST IN THOUS	SANDS OF DO	DLLARS									
COST	ELEMENT OF COST	o ID Code	Prior Years		FY 2	2001		FY 2002			FY2	2003			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
US003	NSSMS IMPROVEMENTS/					4,048			4,182			4,275			
	CONSORTIUM SUPPORT														
	MK 91 RESEARCH SYSTEM MODIFICATION					2,437			6,057			36,472			
US00X	AVT-RNSSMS				1,000										
US005	TAS														
US900	css					334			336			338			
US5IN	EQUIPMENT INSTALLATION											323			
	TOTAL 2446, JUN 86		HOPPING LI			7,819			10,575			41,408 CLASSIFICA			

UNCLASSIFIED

IENT HIST	ORY AND PLA	ANNING EXHIBIT (P-5A))		Weapon System			- h **	002
ACTIVITY					C. P-1 ITEM NOI	 MENCLATURE		Г	SUBHEAD	.002
lavy - BA-4	Ordnance S	support Equipment	t			NATO SEASPARRO	N		24	US
QUANTITY	UNIT COST (000)	LOCATION OF PCO		RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
		NAVSEA		Mar-02	FFP	Raytheon, Sudbury, MA	Jan-03	Jul-04	YES	
10	955	NAVSEA		Mar-02	FFP	Raytheon, Sudbury, MA	Jan-03	Jul-04	YES	
10	170	N/A		N/A	WR	NAWC, St. Inigoes, MD	Mar-03	Apr-04	YES	
13	335	NAVSEA	*1	N/A	FFP	Lockheed Martin Egan, MN	Jun-03	Jan-04	YES	
		NSWC PHD		MULTIPLE	WX	NSWC PHD	MULTIPLE	Jan-04	YES	
l mer contra	I ct.									
		70								
	1 Lot 1 Lot 1 Lot 1 Lot 1 Lot 1 Lot 1 For example of the service o	QUANTITY	ACTIVITY Navy - BA-4 Ordnance Support Equipment QUANTITY UNIT COST (000)	ACTIVITY Navy - BA-4 Ordnance Support Equipment OF PCO	QUANTITY	QUANTITY	C. P-1 ITEM NOMENCLATURE	C. P-1 ITEM NOMENCLATURE NATO SEASPARROW	ACTIVITY Lavy - BA-4 Ordnance Support Equipment C. P-1 ITEM NOMENCLATURE NATO SEASPARROW CONTRACT METHOD ATE CONTRACT METHOD ATE CONTRACT METHOD ATE CONTRACT METHOD ATE CONTRACTOR AND LOCATION DATE DATE CONTRACT METHOD AND CONTRACTOR AND LOCATION AWARD DATE DATE FIRST DELIVERY FFP Raytheon, Sudbury, MA Jan-03 Jul-04 The contract of the c	ACTIVITY JAVY - BA-4 Ordnance Support Equipment C. P-1 ITEM NOMENCLATURE NATO SEASPARROW CONTRACT QUANTITY UNIT COST (000) 1 Lot CVN-4032 NAVSEA 1 Lot LHD 2958 NAVSEA Mar-02 FFP Raytheon, Sudbury, MA Jan-03 Jul-04 YES 10 170 N/A N/A N/A WR NAWC, St. Inigoes, MD Mar-03 Jan-04 YES 1 Lot CVN 555 NSWC PHD MULTIPLE WX NSWC PHD MULTIPLE WX NSWC PHD MULTIPLE WX NSWC PHD MULTIPLE WX NSWC PHD MULTIPLE Jan-04 YES SUBHEAD SUBHEAD CONTRACTOR AWARD DATE OF SPECS. AVAILABLES. AMARIAD CONTRACTOR AWARD DATE OF SPECS. AVAILABLES. AV

D. REMARKS

The unit cost for Hardware assumes the production line restarts in FY 03 at the quantity specified. Any reduction in the quantity will result in cost increase.

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 101 PAGE NO. 4



P3A	INDIVIDUAL MODIFICATION	
		MODIFICATION TITLE:

MODELS OF SYSTEM AFFECTED: NATO SEASPARROW TYPE MODIFICATION: Performance, Reliability and Safety MK 91 REARC & Transmitter

Surface Missile Systems DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The MK 91 NATO Seasparrow ReArchitecture Program will integrate the NSSMS into the SSDS MK 2 architecture to provide an additional layer of ship missile defense. The upgrade will eliminate the analog point to point architecture and other deficiencies resident to the existing MK 57 NSSMS, as well as allow for full exploitation of ESSM. In addition to reductions in manning realized by RNSSMS,

the Solid State Transmitter Ordalt and replacement for the SDP will reduce NSSMS Cost of Ownership for the fleet.

		00 & Prior		2001		Y 2002		2003		2004		<u> 2005</u>		2006		2007		<u>TC</u>		<u>TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT		2.9					3*	28.4	1	11.8	1	7.8	1	7.9	2	15.4	4	44.2	12	118.4
EQUIPMENT NONRECURRING				1.2		4.8		5.0												11.0
ENGINEERING CHANGE ORDERS		0.4		1.3		1.3		1.0		1.3		1.4		1.4		1.4		8.0		17.4
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER-PRODUCTION SUPPORT		0.9						2.1		2.4		1.9		1.6		1.9		16.0		26.8
OTHER - CSS		0.4		0.3		0.3		0.3		0.3		0.3		0.4		0.3		1.2		3.8
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST								0.3		1.2	3	10.5	1	4.1	1	2.9	7	20.6	12	39.6
TOTAL PROCUREMENT		4.5		2.8		6.4		37.1		17.0		21.9		15.4		21.9		90.0		217.0
3 Ship Sets - 2 CVN and 1 LHD											_			·						

P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNC	CLASSI	FIED																				
P3A (Continued)				INDIV	IDUAL	MODIFIC	ATION	(Continue	ed)													
MODELS OF SYSTEMS	AFFEC	CTED:		NATO SEAS) PARRO		DIFIC	ATION TIT	LE:	MK	91 RE	ARCH	1							_		
INSTALLATION INFORM METHOD OF IMPLEME	NTATIC	N:			ce Msl S																	
ADMINISTRATIVE LEAD CONTRACT DATES: DELIVERY DATE:	OTIME: FY 20 FY 20	000:	Month 0 0			PRODU FY 200 FY 200	1:		ИЕ: 0 0		18	Mon	FY 2002: FY 2002:			0						
			_	2 / 222				=1/.0000			\$ in Mil	lions)			E/ 0000		<u> </u>			1.		
Cost:	FY 2000 Qty	& Prior	Qty	Y 200 \$		FY 2002 / \$	Qty	FY 2003 \$	Qty	FY 200	04 \$	Qty	FY 2005	Qty	FY 2006	Qty		Qty	omplete \$		Qty	Total \$
	Qiy	_	Q.y	Ψ	Q.	,	Q.y	<u> </u>	Q.,		Ψ	Qıy	Ψ	Qiy	Ψ	Q.,	Ψ	Qıy	Ψ		Į Q.	, v
PRIOR YEARS																					(0.0
FY 2001 EQUIPMENT																					(0.0
FY 2002 EQUIPMENT																					(0.0
FY 2003 EQUIPMENT								0.	3		0.9	3	10.1								3	11.3
FY 2004 EQUIPMENT											0.3		0.3	1	3.	9					1	4.4
FY 2005 EQUIPMENT													0.1		0.:	2 1	2.3				1	2.6
FY 2006 EQUIPMENT															0.	1	0.2	1	2.4		1	2.6
FY 2007 EQUIPMENT																	0.4	2	5.5		2	5.9
TO COMPLETE																		4	12.7		4	12.7
INSTALLATION SCH	EDULE	:																				
FY 2000	<u> </u>	Y 2001		1	FY 2002	<u>.</u>	FY	2003		FY	2004		FY 200	<u>05</u>			FY 2006		FY 2	2007	TC	
& Prior	1	2 3		1	2 3		2	3 4	1	2	3	4	1 2	3	4 1	2	3 4		1 2	3	4	TOTAL
In 0	0	0 0	-	0	0 0	- 11					0	0	0 1	1	1 1	0	0 0		0 1	0	0 7	12
Out 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0	0	0	0 0	0	1 1	1	0 1		0 0	1	0 7	12

		В	UDGET ITEM JUSTIFICA	ATION SHEE	T			DATE:							
			P-40						Februa	ry 2002					
APPROPRIATION/BI	UDGET ACTIVIT	Υ				P-1 ITEM NOM	IENCLATURE	•							
OTHER PROCUE	REMENT, NA	/Y / BA-4	RAM GMLS				Rolli	ng Airframe I	Missile (RAM) 5238					
Program Element for	Code B Items:					Other Related Program Elements									
	Prior Years	ID Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total				
QUANTITY	59	A	2	4	4	4	0	0	0	44	117				
COST (In Millions)	\$452.7	А	\$35.0	\$31.6	\$23.9	\$32.5	\$25.7	\$24.2	\$13.0	\$312.7	\$951.1				
SPARES COST (In Millions)	N/A	А								N/A	\$0.0				

Rolling Airframe Missile (RAM) - MK-49 Guided Missile Launching System (GMLS)

RAM is a NATO cooperative project with Germany produced under a series of production MOUs approved by the U.S. and Germany. The latest was signed on 18 December 2001.

The MK-31 Guided Missile Weapons System (GMWS) is a lightweight, quick-reaction, high firepower missile system designed to provide antiship missile defense. The system is comprised of a MK-44 Guided Missile Round Pack (GMRP) and the MK-49 Guided Missile Launching System (GMLS), which holds 21 RAM missiles. The 21-round launcher is compatible with various platforms ranging from large USN amphibious assault ships to S-143 type German patrol boats. This system is designed to counter high density anti-ship, cruise missile raids and provide for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence.

Approval for Full Rate Production was granted 6 May 1993. The total RAM GMLS procurement program is 199 launchers (117 OPN (including one trainer and one LBTF), 39 SCN, and 43 German systems). One hundred eight launchers (56 OPN, 9 SCN and 43 German) were procured in FY99 and prior, under joint U.S./German production contracts. A five year multiyear contract for 45 systems (17 OPN and 28 SCN) was awarded in FY00, with the remaining 46 launchers (two SCN and 44 OPN 11-round) scheduled for procurement outside the multiyear contract.

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40 (CONTINUATION)	February 2002
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #
OTHER PROCUREMENT, NAVY	
BA-(4): (RAM GMLS)	Rolling Airframe Missile (RAM) 5238

RAM is installed on or planned for installation on the following ship classes:

<u>CLASS</u>	SHIPS	<u>LAUNCHERS</u>
LHA (OPN)	5	10
LSD (OPN)	11	23 (LSD-52 (1 OPN & 1 SCN))
DD 963 (OPN)	12	12
LHD (OPN)	4	8
CV (OPN)	2	4
CVN (OPN)	7	14
CG 47 (OPN)	22	44
TRAINER (OPN)*		1
LBTF 1 (OPN)*		1_
OPN TOTAL	63	117 *(Only 115 shipboard installations)
LSD (SCN)	1	1 (LSD-52 (1 OPN & 1 SCN))
LHD (SCN)	4	8
CVN (SCN)	3	6
LPD 17 (SCN)	12	24
SCN TOTAL	20	39

The NSWC Port Hueneme provides installation oversight support as the ISEA for the RAM system. RAM will be installed on LHA, LSD, LHD, DD-963, CV/CVN, CG-47 and LPD ship classes.

DD Form 2454, JUN 86

	WEAPONS SYSTEM CO P-5	OST AN	ALYSIS			Weapon S	ystem							Februa	ry 2002
Other Pr	RIATION/BUDGET ACTIVITY ocurement, Navy					ID Code		IOMENCLATU							TY 2002
BA-4: RA	AM GMLS		TOTAL 000	T 11 1 TU 10 1	1044100050		ROLLING	AIRFRAM	E MISSILE	(RAM) 52	38			24UR	
			TOTAL COS	I IN THOU	JSANDS OF D	OCLLARS									
COST	ELEMENT OF COST	ID	Prior					FY 2001			FY 2002			FY 2003	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N86														
UR006	RAM MK-49 GMLS (Annual Procurement)	Α	274,239												
UR006	Multiyear RAM MK-49 GMLS	Α	11,761				2	3,813	7,626	4	4,053	16,213	4	3,923	15,693
UR006	Multiyear RAM EOQ Material	Α	11,615						12,244			(8,323)			(7,708)
UR006	RAM 11 Round GMLS	Α	5,543				0	0	0	0	0	0	0	0	0
UR006	RAM ECP's	Α	32,671						612			2,607			1,401
UR006	RAM GMLS ORDALTS	Α	5,605				0	0	0	16	531	8,500	2	546	1,092
UR777	RAM ENGINEER SERVICES (Contractor)	Α	23,623						2,236			3,051			3,061
UR007	RAM GMLS PRODUCTION SUPPORT	Α	30,630						4,950			4,731			4,356
UR900	RAM - CSS	Α	6,350						591			1,030			1,046
UR006	RAM GMLS/ORDALT Install (Non-FMP)	Α	556						0			0			1,118
UR5IN	RAM GMLS AIT Install (FMP)	Α	50,073						6,780			3,747			3,834
										`					
			452,666						35,040			31,556			23,893

DD FORM 2446, JUN 86

BUDGET PROCUREME	NT HISTOR	RY AND PL	ANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
									February 20	02
B. APPROPRIATION/BUDGET AC					C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, Na	vy								24	UR
BA - 4: RAM GMLS	1	ı		T	CONTRACT	RFRAME MISSILE (RAM	1) 5238	DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE*	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
UR006 FISCAL YEAR (01) RAM GMLS (MK-49) UR006 FISCAL YEAR (02) RAM GMLS (MK-49)	2	3,813 4,053	NAVSEA NAVSEA	N/A N/A	SS/FPM-5(2) SS/FPM-5(3)	Raytheon Company, Louisville, KY Raytheon Company, Louisville, KY	12/00	10/02 01/04	YES	
UR006 FISCAL YEAR (03) RAM GMLS (MK-49)	4	3,923	NAVSEA	N/A	SS/FPM-5(4)	Raytheon Company, Louisville, KY	11/02	01/05	YES	

D. REMARKS

The RAM Multiyear Procurement contract was awarded in FY00; subsequent years do not have award dates, but rather the date of funding for that fiscal year's buy.

The Multiyear contract is for a mix of OPN and SCN launchers.

DD Form 2446-1, JUL 87

РЗА		INDIVIDUA	AL MO	DIFICAT	ION																February 20	002
ROLLING AIR	RFRAME	MISSILE (RA	M)			TYPE N	ODIF	ICATION	۷:	MK-49 (GMLS				_	MODIF	ICATI	ON TITL	E:			
DESCRIPTION/JUSTIFICATION:																						
The Rolling Airframe Missile is a lightweigl (GMRP) and the MK-49 Guided Missile La 143-type German patrol boats. This syste channel dependence.	ıunchinç	g System (C	GMLS)	, which h	nolds 2	21 RAM	missile	es. The	21-rou	nd launc	her is	compatil	ole wit	th various	platfo	rms, rar	nging	from larg	je USI	N amphibious	s assault shi	ps to S-
DEVELOPMENT STATUS/MAJOR DEVELO	OPMEN	IT MILESTO	ONES:		Miles	stone III,	Janua	ary 2000				-										
	FY 20 QTY	000 & Prior \$	QTY	<u>-</u> \$	<u>F`</u> QTY	<u>Y 2001</u>	<u>FY</u> QTY	<u>/ 2002</u> \$	<u>F\</u> QTY	<u>/ 2003</u> \$	<u>F`</u> QTY	<u>/ 2004</u> \$	<u>F`</u> QTY	<u>Y 2005</u> ′\$	<u>FY</u> QTY	<u>2006</u>	<u>F`</u> QTY	<u>/ 2007</u> \$	QTY	<u>TC</u> \$	TC QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS	8	6.2	0	0.0	0	0.0	16	8.5	2	2.2	6	3.5	0	0.5	14	8.7	0	1.1	TBD	TBD	46	30.7
INSTALLATION KITS - UNIT COST		0.7				0.0		0.5		0.5		0.6		0.0		0.6		0.0		0.0		
INSTALLATION Kits/GMLS		0.6	0	0.0		0.0		0.0		1.1		0.2		0.5		0.0		1.1		0.0		3.4
EQUIPMENT	59	291.5	0	0.0	2	7.6	4	16.2	4	15.7	4	16.0	0	0.0	0	0.0	0	0.0	44	241.7	117	588.8
EQUIPMENT NONRECURRING																				0.0		0.0
ENGINEERING CHANGE ORDERS		32.7		0.0		0.6		2.6		1.4		2.4		2.5		2.1		2.4		0.0		46.7
DATA																				0.0		0.0
TRAINING EQUIPMENT																				0.0		0.0
SUPPORT EQUIPMENT																				0.0		0.0
ENGINEERING SERVICES (Contractor)		23.6		0.0		2.2		3.1		3.1		3.3		3.4		3.5		3.6		0.0		45.8
PRODUCTION SUPPORT		30.6		0.0		5.0		4.7		4.4		4.4		4.5		4.5		4.7		0.0		62.8
ECONOMIC ORDER QUANTITY		11.6		0.0		12.2		-8.3		-7.7		-7.8		0.0		0.0		0.0		0.0		0.0
INTERIM CONTRACTOR SUPPORT		6.4		0.0		0.6		1.0		1.0		1.1		1.1		1.1		1.1		0.0		13.4
INSTALL COST	45	50.1	0	0.0	9	6.8	3	3.7	2	3.8	4	9.6	6	13.7	2	4.3	0	0.0	44	71.0	115	163.0
TOTAL PROCUREMENT		452.7		0.0		35.0		31.6		23.9		32.5		25.7		24.2		13.0		312.7		951.1

P3A (Continue	ed)				INDI	VIDU	AL M	IODIFICA	TIOI	۷ (C	ontinued)									February	2002	2					
					Roll	ling A	irfra	me Miss	ile (R	AM	I) MK-49 G	MLS	<u> </u>								MODIFIC	ATIO	N TITL	≣:				
INSTALLATIC METHOD OF ADMINISTRA' CONTRACT I DELIVERY DA	IMPLEMEI TIVE LEAD DATES:	NTA DTIM FY	TION:	7 N 12/	onth 00	oyard/. s	AIT_	PRODU FY 2002 FY 2004	2:	_	_EADTIME 11/01 01/04	i: -		21_	Mon	nths	FY 20 FY 20		11/0 01/0		_ _							
													((\$ in M	illions	s)												
Cost							F	Y 2001			2002		Y 20		F	Ý 200)4		Y 2005		Y 2006		Y 2007			omplete		Total
	Qty		\$	Qty	(\$	Qty	\$	Qt	у	\$	Qty		\$	Qty	;	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$
PRIOR YEAI	RS	45	50.1	0		0.0	9	6.	8	0	0.0			0.0			0.0		0.0		0.0			0.0			54	56.9
FY 2000 EQI	UIPMENT	0	0	0		0.0	0	0.	0	3	3.7	0		0.0	0		0.0	0	0.0		0.0			0.0			3	3.7
FY 2001 EQI	UIPMENT											2		3.8	0		0.0	0	0.0	0	0.0	0		0.0			2	3.8
FY 2002 EQI	UIPMENT														4		9.6										4	9.6
FY 2003 EQI	UIPMENT																	4	9.4								4	9.4
FY 2004 EQI	UIPMENT																	2	4.3	2	4.3						4	8.5
FY 2005 EQI	UIPMENT																			0	0.0	0		0			0	0.0
FY 2006 EQ	UIPMENT																					0		0.0	0	0	0	0.0
FY 2007 EQI	UIPMENT																								0	0	0	0.0
TO COMPLE	TE																								44	71.0	44	71.0
INSTALLA ⁻	TION SCH	EDU	LE:																				ı					
	FY 2000		FY 2	2001			FY:	<u> 2002</u>			FY 2003			FY 2	2004			FY 2	<u> 2005</u>		FY 2006			FY:	<u> 2007</u>		<u>TC</u>	
	& Prior	1	2	3	4	1	2	3 4	4 1	<u> </u>	2 3	4	1	2	3	4	1	_2	3 4	1	2 3	4	1	2	3	4		TOTAL
In O t	45	1	1	3	4	0	0	3 0			2 0	0	0	2	2	0	2	2	0 2	0	2 0	0	0	0	0	0	44	115
Out	45	0	11	1_	3	4	0	0 3)	0 2	0	0	0	2	2	0	2	2 0	2	0 2	0	0	0	0	0	44	115
																								P-3A				

FY 2000/91/BHDGFTLRBSPLE	TION	SCHE	DULE	E, P-21	·													DATE			F	ebr	uary	200	2					
APPROPRIATION/BUDGET AC OTHER PROCUREMENT, NAV	TIVITY	Y											Wea	apon R <i>F</i>	١M			RAM	ITEN I MK-4	19 GI	OME									
							Pro	oducti	ion F	₹ate									adtin											
Item	1	Man Name	nufactu and L		n	M	SR	1-8	3-5	MA	λX		T P Oc			T Af Oct			Initial fg PL			eord fg P			Tota	ıl			it of asure	
RAM MK-49 GMLS	Raythe	eon Cor	mpany,l	_ouisvill	e, KY	8		12		24									21			21		<u> </u>	<u>—</u>	<u>—</u>	\vdash	<u> </u>	<u>—</u>	<u>—</u>
ITEM / MANUFACTURER	F	S	Q	D	В						FISC			000 NDAR	VEAR	2000	1					FISC		EAR 2		EΔD 1	2001			
TIEW/ WANGI ACTOREK	Y	8 V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
RAM MK-49 GMLS (Multi-year)	00	N	3	0	3							Α																		3
RAM MK-49 GMLS (Multiyear)	01	N	2	0	2														Α											2
										FISC	AL YE	AR 2	002									FISC	CAL Y	EAR 2	2003		<u> </u>			
ITEM / MANUFACTURER	F Y	S V	Q T	D E	B A	0	2001 N	D	J	F	М	A	M	NDAR J	YEAR J	2002 A	2 S	0	N	D	J	F	CA M	ALEND	AR YE	EAR 2	2003 J	Α	S	В
		С	Y	L	L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	Ü	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	Ü L	U G	E P	A L
RAM MK-49 GMLS (Multiyear)	00	N	3	0	3					1	1	1																		0
RAM MK-49 GMLS (Multiyear)	01	N	2	0	2													1	1					<u> </u>						0
RAM MK-49 GMLS (Multiyear)	02	N	4	0	4		Α																							4
RAM MK-49 GMLS (Multiyear)	03	N	4	0	4														Α											4
Remarks:				ш																										_

DD Form 2445, JUL 87 311 / 244

Previous editions are obsolete

P-1 SHOPPING LIST
ITEM NO. 102 PAGE NO. 7

Exhibit P-21 Production Schedule

CLASSIFICATION: UNCLASSIFIED

FY 2000/01 BUDGET RSPRE			DULE	E, P-2	1												DATE						200						
APPROPRIATION/BUDGET A OTHER PROCUREMENT, NA			л GMI	_S								Wea RAM	apon I				RAN	ITEN 1 MK-4	49 GI		NCI	LAT	URE	:: RA	AM				
						Pro	oduct	ion I	Rate									adtir											
Item		Name		.ocatio		MSR		8-5	M	ΑX		T Pr Oct			T At			Initia Ifg Pl			eord fg P			Tota	ıl		Un Mea	it of asur	
MK-49 GMLS	Raythe	eon Cor	mpany,	Louisvi	lle, KY	8	12		24									21			21								
ITEM / MANUFACTURER	F	S	Q	D	В	2003		F	ISCAL	YEAF	R 2004		NDAR	YEAR	R 200	14					FISC		EAR 2		EAR 2	005			
	Y	V C	T Y	E L	A L	O N C O T V		J A N	F E B	M A R	A P R	M A Y	JUN	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J	A U G	S E P	B A L
RAM MK-49 GMLS (Multiyear)	02	N	4	0	4			1	1	1	1																		0
RAM MK-49 GMLS (Multiyear)	03	N	4	0	4															1	1	1	1						0
RAM MK-49 GMLS (Multiyear)	04	N	4	0	4	A																							4
									EIS		EAR 2	2006									EISC		EAR 2	2007					
ITEM / MANUFACTURER	F	S	Q	D	В	2005		I	1100	JAL I			NDAR	YEAR	R 200	16					1100		LEND		EAR 2	007			
	Y	V C	T Y	E L	A L	O N C O T V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U Z	J U L	A U G	S E P	B A L
RAM MK-49 GMLS (Multiyear)	04	N	4	0	4	1	1	1	1																				0
Remarks:																													上

		BUDG	ET ITEM JU	STIFICATIO	N SHEET			DATE:			
			F	P-40					Februa	ary 2002	
APPROPRIATION/B	SUDGET ACTI	VITY				P-1 ITEM NOM	ENCLATURE			-	
OTHER PROCU	REMENT, N	IAVY/B	A 4				SHIP SELI	F DEFENSE	SYSTEM (SS	SDS) / 5239	
Program Element for	Code B Items	s:				Other Related I	Program Elemer	nts	•		
						P.E. 060475	55N				
	Prior	ID								То	
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY	13	Α	0	2	4	3	1	2	1	7	33
COST											
(In Millions)	\$127.5	Α	\$9.2	\$39.0	\$47.2	\$63.0	\$46.0	\$35.5	\$32.5	\$211.2	\$611.2
SPARES COST			•								•
(In Millions)	\$6.5	Α	\$0.0	\$1.5	\$6.2	\$3.3	\$1.9	\$0.0	\$0.0	Continue	\$19.4

SHIP SELF DEFENSE SYSTEM (SSDS) - Funds are requested to procure an evolutionary SSDS for selected ship classes. The SSDS is a coordinated engineering approach to improve ship self defense utilizing existing and planned defensive systems in Navy ships. The program coordinates the efforts of diverse acquisition programs that are in varying stages of programmatic maturity. A multiphased evolutionary acquisition program has been planned. The AN/SYQ-17 Rapid Anti-Ship Missile Integrated Defense System program, or SSDS MK 0, is being followed by an evolutionary SSDS MK1 program to integrate sensors and automate engagement sequences of hardkill and softkill systems. The next phase is identified as SSDS MK2.

SSDS MK 0 uses ruggedized computer workstations and an ETHERNET LAN and provides decision support to weapons systems operators and managers using data from AN/SLQ-32 and CIWS radar. SSDS MK 0 is designated for use on DD 963/FFG 7 class ships. During FY01-04, implementation of Commercial Off the Shelf technology refresh upgrade is planned for both DD 963 and FFG 7 class ships as Field Change Kits.

SSDS MK 1 is the second phase of an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles (ASCM) for LSD 41/49 class ships. It integrates several existing stand-alone sensor and Anti-Air Warfare weapons systems to provide an automated detect-to-engage capability against low flying, high speed ASCMs with low radar cross sections in the littoral environment. System design emphasizes physically distributed non-developmental items, commercial standards, Next Generation Computer Resources, and computer program reuse in an open architecture computer network. It includes a command table that uses components of the Navy's AN/UYQ-70 standard display for human-machine interface, commercially available local area network access units and circuit cards, and commercially available fiber optic cabling. SSDS MK1 successfully completed Operational Evaluation in June 1997. SSDS received Milestone III Approval for Full Rate Production (Mar 98) and authority to continue integration with Advanced Combat Direction System (ACDS) and Cooperative Engagement Capability (CEC) on CV(N), LPD-17, and LHD ship classes.

SSDS MK 2 development will adopt the functionality of ACDS and combine the SSDS MK1 capability with and weapon and sensor elements. In addition, MK2 will integrate with CEC to improve joint interoperability for Aircraft Carriers and Amphibious Ships. It provides enhanced capabilities for Force Protection against air, surface, and subsurface threats using both own-ship and remote data in support of the AAW Capstone Requirements. MK2 will increase operational capabilities, improve combat readiness and Battle Group Interoperability, and promote standardization both within installed ship classes and with AEGIS to facilitate transition to Common Command and Decision. SSDS MK 2 also equips all backfit LHDs and CV(N)s with an upgraded Combat System Display Suite which includes AN/UYQ-70s, Automatic Status Boards (ASTABS), Remote ASTAB Controllers, Advanced Sensor Distribution System and a backup Sensor Integration And Control Interface Terminal. In FY02 a shore based SSDS MK 2 and a full combat system suite are being procured and installed at the Ship Combat System Center (SCSC). This facility, under the sponsorship of PEO(TSC), is being established at Wallops Island to provide a high fidelity combat system engineering development and integration test site in support of the combat systems of the CVNILPD-17 and future ship classes. Presently the SCSC is equipped with core combat system components provided by PMS 317 that must eventually be installed onboard LPD-17 and LPD-18. To fulfill its mission, SCSC requires a permanent set of combat system components. In FY03 a shore based system is being procured for NAVSEA Dahlgren to support testing for the SSA. Also, FY03 a shore based trainer is being procured at NAVSEA Dam Neck for operator and maintenance training. In FY06 the maintenance trainer at NAVSEA Dam Neck will be expanded to increase student throughput.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 103 PAGE NO. 1

UNCLASSIFIED

	WEAPONS SYSTEM		ANALYSIS			Weapon Sy	stem						DATE: February 20	002
APPROF	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAD)			1 Columny 20	702
	rocurement, Navy/BA4													
							SHIP SEL	F DEFENS	E SYSTEM	I (SSDS) A	44UQ / 5239)		
			TOTAL COST IN	THOUSAN	DS OF DOLLA	RS								
COST	ELEMENT OF COST	ID	Prior		FY 2001			FY 2002			FY 2003			—
CODE		Code	Years	0 .::		I = o	0 1		T	o I		T	, ,	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	SPONSOR N86													
	EQUIPMENT	А												
2001	SSDS													
	LSD		47,863	0	0	0	0	0	0	0	0	0		
	LHD		0	0	0	0	0	0	0	1	8,290	8,290		
	CV(N)		6,106	0	0	0	0	0	0	1	3,000	3,000		
	SHOREBASED		11,935	0	0	0	1	7,900	7,900	2	7,190	14,380		
	SUPPORT EQUIPMENT		0	0	0	0	1	16,655	16,655	0	0	0		
Q002	SSDS PRODUCTION SUPPORT		20,891			781			2,228			2,321		
Q003	SSDS ECP		3,004			0			478			486		
2004	SSDS TRAINING		7,994			523			508			1,219		
2005	SSDS COTS REPLACEMENT		0			775			5,795			9,636		
qxxx	COMBAT SYSTEM DISPLAY SUITE		0			0			0			3,573		
	INSTALL													
Q51N	SSDS Equipment Install (FMP)		26,158			6,477			0			924		
Q6IN	EQUIPMENT INSTALL (NON-FMP)		3,568			665			465			3,397		
	* Includes a FY 02 Congressional Add fo	r NULKA I	Decoys						5,000					
	1 2446, JUN 86		127,519 IOPPING LIST	0		9,221	2		39,029	4		47,226 CLASSIFICA		

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 103

CLASSIFICATION:

UNCLASSIFIED CLASSIFICATION:

WI 11131	JK I AND PL	ANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
								February 20	02
TIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
vy/BA4								A4	UQ
					DEFENSE SYSTEM (SSE	S) / 5239)		
QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	7,900	NAVSEA	10/01	FFP	RAYTHEON 8680 Balboa Avenue San Diego CA 92123	04/02 (R1)		YES	N/A
1	16,655	NAVSEA NAVSEA NAVSEA	N/A N/A N/A	VARIOUS VARIOUS VARIOUS	RAYTHEON LOCKHEED MARTIN LITTON	VARIOUS VARIOUS VARIOUS	award VARIOUS VARIOUS VARIOUS	YES YES YES	N/A N/A N/A
1 1	8,290 3,000 (R2)	NAVSEA	N/A 9/02	FFP	RAYTHEON 8680 Balboa Avenue San Diego CA 92123	TBD	10 mos. after award	YES	N/A N/A
	· ` ` [NAVSEA	N/A	VARIOUS	LOCKHEED MARTIN MISC. VENDORS	VARIOUS	VARIOUS	YES	N/A
	ny/BA4 QUANTITY N/A 1 1 1 2	N/A N/A 1 7,900 1 16,655 1 8,290 1 3,000 (R2) 2 7,190 (R3)	N/A N/A N/A N/A 1 7,900 NAVSEA 1 16,655 NAVSEA 1 8,290 1 3,000 (R2) 2 7,190 (R3)	N/A N/A N/A N/A N/A N/A 1 7,900 NAVSEA 10/01 1 16,655 NAVSEA N/A N/A NAVSEA N/A N/A NAVSEA N/A N/A NAVSEA N/A N/A N/A N/A N/A N/A N/A N/A N/A N/	N/A	N/A N/A	N/A N/A	N/A	C. P-1 TIEM NOMENCLATURE SHIP SELF DEFENSE SYSTEM (SSDS) / 5239

Overall Note: Government Furnished Equipment (GFE) is included with unit cost above.

Remark 4: Unit price only reflects the requirements for a partial display upgrade to CVN 68 and LHD 7, an ECP Kit.

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87 UNCLASSIFIED 3

Remark 1: GFE for Command Table was awarded Jan 02 to Lockheed Martin. MK 2 Equipment plan is to procure with SCN units.

Remark 2: Unit price only refects a partial SSDS MK 2 equipment suite; four multi-LAU cabinets versus six.

Remark 3: Unit price is the average unit cost.

P3A	INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: SHIP SELF DEFENSE SYSTEM (SSDS) TYPE MODIFICATION: Ship Self Defense System MK 2 MODIFICATION TITLE:

DESCRIPTION/JUSTIFICATION:

Implements an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles for selected non-AEGIS ships by integrating existing programmed Anti-Air Warfare stand alone systems.

It provides an automated quick reaction and multi-target engagement capability emphasizing performance in the littoral environment. Integration focuses on coordinating existing sensor information, providing threat identification and evaluation, assessing defensive readiness, and recommending optimized defensive tactical response to counter single and multiple Anti-Ship Cruise Missile attacks.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone III decision approved 5 March 1998

	FY 200 QTY	0 & Prior \$	<u>FY</u> QTY	<u>′ 2001</u> \$	<u>FY</u> QTY	<u>′ 2002</u> \$	<u>FY</u> QTY	<u>/ 2003</u> \$	<u>FY</u> QTY	2004 \$	<u>FY</u> QTY	<u>/ 2005</u> \$	<u>FY</u> QTY	<u>′ 2006</u> \$	<u>FY</u> QTY	2007 \$	QTY	<u>TC</u> \$	QTY <u>T</u>	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E	7	219.3	0	42.7	0	44.1	0	48.7	0	36.4	0	24.8	0	0.1	0	0.1	0	0.0	7	416.2
<u>PROCUREMENT</u>	13	66.0	0	0.0	2	24.6	4	25.7	3	25.8	1	8.8	2	13.5	1	9.1	7	63.0	33	236.4
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING																	0	0.0	0	0.0
EQUIPMENT	11	54.0	0	0.0	0	0.0	2	11.3	3	25.8	1	8.8	1	9.0	1	9.1	7	63.0	26	181.0
EQUIPMENT NONRECURRING																	0	0.0	0	0.0
ENGINEERING CHANGE ORDERS																	0	0.0	0	0.0
DATA																	0	0.0	0	0.0
TRAINING EQUIPMENT	2	12.0	0	0.0	0	0.0	1	7.2	0	0.0	0	0.0	1	4.5	0	0.0	0	0.0	4	23.7
SUPPORT EQUIPMENT	0	0.0	0	0.0	2	24.6	1	7.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	31.7
OTHER (Production Support)		20.9		0.8		2.2		2.3		2.4		2.4		2.3		2.2	0	11.8	0	
OTHER (ECP)		3.0		0.0		0.5		0.5		0.5		0.6		0.5		0.5	0	3.5	0	9.6
OTHER (Training)		8.0		0.5		0.5		1.2		0.5		0.6		0.6		0.6	0	3.5	0	16.1
OTHER (COTS Replacement)				0.8		5.8		9.6		2.7		2.2		4.1		6.3	0	18.9	0	50.4
OTHER (Congressional Add for NULKA)						5.0											0	0.0	0	5.0
INTERIM CONTRACTOR SUPPORT																	0	0.0	0	0.0
TOTAL PROCUREMENT		97.9		2.1		38.6		39.3		32.0		14.5		21.0		18.8	0	100.7	0	364.9
INSTALL COST*	9	29.7	4	7.1		0.5	2	4.3	4	6.9	3	9.5	1	3.2	2	1.6	8	26.4	33	89.2
TOTAL PROGRAM COST	13	127.6	0	9.2	2	39.0	4	43.7	3	38.9	1	24.0	2	24.2	1	20.3	7	127.1	33	454.1

P-1 SHOPPING LIST

* Includes FMP, Planning, and Non-FMP Installation UNCLASSIFIED

CLASSIFICATION:

		•••																											
P3A (Continued)					IND	IVIDU	AL M	ODIFIC	ATIO	N (Co	ontinued)																		
MODELS OF SY	STEMS AF	FECT	ED: SH	HIP SEL	F DEF	FENSE	SYS	TEM (SS	DS)	N	MODIFICAT	TION	T <u>ITLE:</u>												_				
INSTALLATION I	INFORMAT	ION:																											
METHOD OF IMI	PLEMENTA	ATION	l: Altera	tion Ins	stalla	tion T	eam	(AIT)																					
ADMINISTRATIV	'E LEADTI	ME:	2 mon	<u>t</u> hs				PRODU	JCTI	ON L	EADTIME:			10	Mor	nths													
CONTRACT DAT	ΓES:	FY 2	2000:	12/99	- 5/0	00		FY 200	1:	1	N/A						FY 20	002:			TBD								
DELIVERY DATE	≣:	FY 2	2000:	1/01	8/01	I		FY 200	1:	1	V/A						FY 20	002:			TBD		_						
													(\$ in	Millio	ons)														
Cost:		Prio	r Years		Y 200	00		Y 2001			/ 2002	F	Y 200	3		Y 200)4		Y 200)5	F۱	Y 2006		FY 2007			plete		Total
		Qty	\$	Qty		\$	Qty	\$	Q	ty	\$	Qty	\$	3	Qty	,	\$	Qty	,	\$	Qty	\$	Qty	\$	Q	y	\$	Qty	\$
PRIOR YEARS		9	29.7					0	.0		0.0			0.0			0.0			0.0		0.0)	0	.0		0.0	9	29.7
FY 2000 EQUIP	PMENT						4	7.	1											0.0		0.0)	0	.0		0.0	4	7.1
FY 2001 EQUIP	PMENT									0	0.5																	0	0.5
FY 2002 EQUIP	PMENT											2		4.3														2	4.3
FY 2003 EQUIP	MENT														4		6.9											4	6.9
FY 2004 EQUIP	MENT																	3		9.5								3	9.5
FY 2005 EQUIP	PMENT																				1	3.2						1	3.2
FY 2006 EQUIP	MENT																						2	. 1	.6			2	1.6
FY 2007 EQUIP	PMENT																									8	26.4	8	26.4
TO COMPLETE																												33	89.2
			•		•		•			•			•								·			•		•			
INSTALLA	TION SCH	EDUL	.E:																										
	FY 2000		FY 200)1		FY 2	2002			FY 20	003		FY 2	2004			FY 2	005			FY 2	006		FY 200	7			TC	TOTAL
	& Prior	1	2 3	4	1	2	3	4 1		2	3 4	1	2	3	4	1	2	3	4	1	2	3 4	1	2 3	. 4	1			
IN	9	1	0 2	1	0	0	0	0 2	- -	0	0 0	1	1	1	1	0	1	1	1	1	0	0 0	1	1 ()		8	33
OUT	9	0	1 1	2	0	0	0	0 0)	1	0 1	0	1	1	2	0	0	0	3	0	1	0 0	0	0 1		╚		8	33
																								P-:	3A				
-								TEMANO					\CE	_								OL A	COIE	ICATION:			CIFIED		

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED
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P3A	INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED:	SHIP SELF DEFENSE SYSTEM (SSDS)	TYPE MODIFICATION: Combat System Display Suite	MODIFICATION TITLE:	
DECODIDITION/ II ICTIEIO ATION				

DESCRIPTION/JUSTIFICATION:

SSDS MK 2 also equips all backfit LHDs and CV(N)s with an upgraded Combat System Display Suite which includes AN/UYQ-70s, Automatic Status Boards (ASTABS), Remote ASTAB Controllers, Advanced Sensor Distribution System (ASDS) and a backup Sensor Integration And Control (SIAC) Interface Terminal.

DEVELOPMENT STATUS/MAJOR DEVELO	OPMENT	MILEST	ONES	S:			N/A							-								
	FY 2000 & Prior QTY \$			<u>FY 2001</u> QTY \$ 0		<u>FY</u> QTY	<u>FY 2002</u> QTY \$		<u>FY 2003</u> QTY \$		<u>FY 2004</u> QTY \$		<u>/ 2005</u> \$	<u>FY 2006</u> QTY \$		<u>FY 2007</u> QTY \$		TC QTY \$		TOTAL QTY \$		
FINANCIAL PLAN (IN MILLIONS)	<u> </u>						<u> </u>		T		<u> </u>		QTY				Ī		<u> </u>			
RDT&E																					0	0.0
<u>PROCUREMENT</u>	0	0.0			0	0.0	0	0.0	0	3.6	0	22.9	0	7.5	0	6.9	0	6.6	0	44.1	0	91.5
INSTALLATION KITS																					0	0.0
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT		0.0				0.0		0.0		3.6		22.9		7.5		6.9		6.6		44.1	0	91.5
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER (Production Support)																					0	
OTHER (ECP)																					0	0.0
OTHER (Training)																					0	0.0
OTHER (COTS Replacement)																					0	0.0
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
TOTAL PROCUREMENT		0.0		0.0		0.0		0.0		3.6		22.9		7.5		6.9		6.6	0	44.1	0	91.5
INSTALL COST*										0.0		1.3		14.5		4.4		5.5		40.0	0	65.8
TOTAL PROGRAM COST	0	0.0	0	0.0	0	0.0	0	0.0	0	3.6	0	24.2	0	22.0	0	11.3	0	12.2	0	84.1	0	157.3

P-1 SHOPPING LIST

UNCLASSIFIED

CLASSIFICATION:

^{*} Includes FMP, Planning, and Non-FMP Installation

P3A (Continued)	EOTE			INDIV	יוחוי																						
	ЕСТ				יוטטו	AL M	ODIFIC	ATIO	N (Co	ntinued)																	
MODELS OF SYSTEMS AFF	ECIE	ED: SH	IP SELF	DEFE	NSE	SYST	TEM (SS	SDS)	М	ODIFICA	TION ⁻	T <u>ITLE:</u>		Comb	bat Sy	stem [Displa	ay Sui	te Upç	grade				_			
INSTALLATION INFORMATIO	ON:																										
METHOD OF IMPLEMENTAT	ΓΙΟΝ:	Alterat	ion Ins	tallati	on Te	eam ((AIT)																				
ADMINISTRATIVE LEADTIME	E: _	2 month	hs				PROD	UCTIO	ON LE	ADTIME:	-		10	Mon	ths												
CONTRACT DATES:	FY 20	000:	N/A				FY 200)1:	N.	/A						FY 20	002:			TBD		_					
DELIVERY DATE:	FY 20	000:	N/A				FY 200)1:	N.	/A						FY 20	002:			TBD		_					
												(\$ in	Millio	ne)													
Cost:	Prior	Years	FY	/ 2000	1	F`	Y 2001		FY	2002	F	Y 200			Y 200	4	F`	Y 200	5	FY	′ 2006	F	Y 2007	To C	omplete		Total
	Qty	\$	Qty	\$		Qty	\$	Q		\$	Qty	\$		Qty	\$		Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																										0	0.0
FY 2000 EQUIPMENT																										0	0.0
FY 2001 EQUIPMENT																										0	0.0
FY 2002 EQUIPMENT																										0	0.0
FY 2003 EQUIPMENT																1.3										0	1.3
FY 2004 EQUIPMENT																			14.5							0	14.5
FY 2005 EQUIPMENT																					4.4	1				0	4.4
FY 2006 EQUIPMENT																							5.	5		0	5.5
FY 2007 EQUIPMENT																									40.0	0	40.0
TO COMPLETE																										0	65.8
INSTALLATION SCHE	DULE	≣:																									
FY 2000		FY 200	<u>1</u>		FY 2	002			FY 20	03		FY 2	2004			FY 20	005			FY 2	006		FY 200	<u>7</u>		TC	TOTAL
& Prior	1	2 3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3 4	1	2 3	4			
IN 0	0	0 0	0	0	0	0	0)	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0		0	0
OUT 0	0	0 0	0	0	0	0	0 ()	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0		0	0
										DDING I												0015	P-3				

P-1 SHOPPING LIST

CLASSIFICATION: UNCLASSIFIED

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		BUDG	ET ITEM JUST P-4		HEET			DATE:	FEBRUA	ARY 2002	
APPROPRIATION/BL	JDGET ACTIVITY					P-1 ITEM NOM	ENCLATURE	ВВ			
OTHER PROCUR	EMENT, NAV	Y	BA-4 Ordna	nce Support	Equipment		Α	EGIS SUPPOR	T EQUIPMENT	/ 524600/5246	05
Program Element for 0	Code B Items:					Other Related P	Program Elements 0604307N	5			
	Prior Years	ID Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY											
COST (In Millions)	\$219.2	Α	\$43.8	\$162.1	\$155.7	\$148.4	\$137.4	\$164.8	\$155.8	TBD	\$1,187.2
SPARES COST (In Millions)			\$1.1	\$1.7	\$0.9	\$1.0	\$0.6	\$0.6	\$0.9	TBD	\$6.7

PROGRAM DESCRIPTION/JUSTIFICATION:

- 1. This program provides equipments for shore facilities and for shipboard upgrades to support the battle readiness of AEGIS Cruisers and Destroyers in the following areas: a. Special Tooling and Test Equipment for AEGIS unique depots; b. Computer, displays and simulators for the AEGIS Computer Center (ACC) at Dahlgren, VA; c. Weapon/Combat System equipments for the Surface Combat System Center (SCSC) at Wallops Island, VA; d. Weapon System Training equipment for the AEGIS Training & Readiness Center (ATRC) at Dahlgren, VA; e. AEGIS Weapon System ORDALT procurement; f. AEGIS Weapon System SHIPALT procurement; g. Class Common Equipment to support shorter Regular Overhauls and Selected Restricted Availabilities. Includes Weapon and Ship System Components that require long repair turn-around; h. Field Activity Integrated Communications Equipment; i. Smart Ship-Type Systems Engineering Control and Surveillance Equipment (ECSE); j. CG Conversion NJ/VA Sites Equipment includes Land Attack, & Area Air Defense Commander; k. Shipboard equipment and ORDALT installation; l. Area Air Defense Commander (AADC); m. Integrated Bridge Systems (IBS).
- 2. The FY 2000-07 funds will be used to upgrade three centers (AEGIS Computer Center, AEGIS Training & Readiness Center, and Surface Combat Systems Center) to properly accommodate CG 47 and DDG 51 Combat System Baselines and to provide shipboard SHIPALT and ORDALT equipments for existing Cruiser and Destroyer Baselines. Funding is also for the installation of equipment including the Fleet Modernization Program, training equipment, and other shore facilities. These include, among others, the following major Weapon/Combat systems:

DESCRIPTION APPLICABLE HULLS

CG-47 - CG 51 CG BASELINE 1 SPY-1A RADAR

> AEGIS DISPLAY SYSTEM MARK I MARK 26 LAUNCHING SYSTEM LAMPS MARK III HELICOPTER

MK 116 MOD 4 UNDERWATER FIRE CONTROL

UYK-7/20 COMPUTERS

CG BASELINE 2

CG BASELINE 1 PLUS CG 52 -CG 58

TOMAHAWK WEAPON SYSTEM

ANTI-SUBMARINE WARFARE UPGRADE SQQ-89 MK 41 VERTICAL LAUNCH SYSTEM IN PLACE OF MK 26

BACKFIT COMPUTERS/AN/UYQ-70 DISPLAYS

ECSE UPGRADE/COTS COMPUTER

CLASSIFICATION:

PAGE NO 1

P-1 SHOPPING LIST

DD Form 2454, JUN 86 ITEM NO 104

UNCLASSIFIED

UNCLASSIFIED

	BUDGETIII	EM JUSTIFICATION SHE	ET	DATE:	EEDDIIA DV 0000
	N/BUDGET ACTIVITY	P-40 CONTINUATION	ID 4 I	TEM NOMENCLATURE	FEBRUARY 2002
		anaa Cumpart Equipman			DODT FOLUDIATNIT / FOACOO/FOACOF
	CUREMENT, NAVY BA-4 Ordn for Code B Items:	ance Support Equipmen		r Related Program Elements	PORT EQUIPMENT / 524600/524605
rogram Element	Tor Code B items.		Other	Related Frogram Elements	
			I		
	DESCRIPTION	APPLICABLE HULLS	DESC	RIPTION	APPLICABLE HULLS
CG BASELINE 3A	CG BASELINE 2 PLUS SPY-1B RADAR IN PLACE OF SPY-1A UYQ-21 DISPLAYS IN PLACE OF UYA-4 BACKFIT UYK-43 (LoBoy)/44 COMPUTERS ECSE UPGRADE/COTS COMPUTER	CG 59 - CG 64	DDG BASELINE 4	CG BASELINE 3 PLUS SPY-1D RADAR IN PLACE OF SPY -1 MK 160 GUN COMPUTING SYSTEM UYK 43/44 COMPUTERS IN PLACE C	IN PLACE OF MK 86
CG BASELINE 4	CG BASELINE 3 PLUS VERTICAL LAUNCH ASROC SM-2 MISSILE UPGRADE UYK 43/44 COMPUTERS IN PLACE OF UYK-7/20s	CG 65 - CG 73	DDG BASELINE 5		ONTROL (C2P) ITERS CDF) EXCHANGE SYSTWM (TADIX B)TAC RONIC COUNTERMEASURES (ECM)
			DDG BASELINE 6 PH I	DDG BASELINE 5 PLUS ORTS UPGRADE, ECM UPGRADE SQQ-89 (V) 10, ATWCS PHASE 2 AN/UYQ-70, DOPPLER SONAR VE	•
CG BASELINE 7IC	CG BASELINE 4,2 & 3 BASELINE 7 LAND ATTACK AREA AIR DEFENSE COMMANDER (AADC) ADVANCED ARCHITECTURE	NJ/VA SITES	DDG BASELINE 6 PH III	DDG BASELINE 6 PH I PLUS UPGRADES TO AN/UYQ-70 DISPL UPGRADES TO ORTS, CEC, NAVS CDLMS, JTT, ESSM, STAMO MODS, SP	SSI BLK III

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CLASSIFICATION:

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DD Form 2454, JUN 86

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	WEAPONS SYSTEM COS P-5	ST ANAL	YSIS		Weapon S	System						DATE:	FEBRUA	ARY 2002
	PRIATION/BUDGET ACTIVITY Procurement, Navy / BA-4				ID Code			JRE/SUBHEAD		524605 / /	M 7	1		
			TOTAL COST	IN THOUSANDS OF		AEGIS S	UPPORT E	QUIPINIENT	3246007	524605 <i> F</i>	14L <i>1</i>			
COST	ELEMENT OF COST	ID Code	Prior Years				FY 2001		FY 2002			FY 2003		
-			Total Cost			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
·	SPONSOR N76													
L7001	DEPOT SPECIAL TOOLING/TEST EQPT		2,235					684			4,848			87.
L7003	AEGIS COMPUTER CENTER EQPT		2,980					1,000			3,596			1,12
L7004	BASELINE CONSOLIDATION		26,369					0			0			
L7005	SMART SHIP TYPE SYSTEMS		70,100					16,723			29,659			9,83
L7006	SURFACE COMBAT SYSTEM CENTER EQPT		4,358					742			1,663			1,70
L7007	AEGIS TRAINING & READINESS CENTER		3,372					815			1,695			1,74
L7010	AEGIS WEAPON SYSTEM ORDALTS		37,288					256			5,293			5,26
L7011	AEGIS WEAPON SYSTEM SHIPALTS		29,697					1,264			31,970			64,81
L7013	CLASS COMMON EQUIPMENT		3,280					398			1,536			2,00
L7016	FIELD ACT'Y INTEGRATED COMM EQPT		807					378			384			39
L7021	CG CONVERSION		0					0			68,104			
L7022	AADC		0					0			0			20,900
L7023	IBS SYSTEMS		0					0			0			14,79
L7067	USS COLE RESTORATION		0					10,500			0			
L7600	INSTALLATION OF EQPT, FMP		38,762					11,064			13,415			32,20
	1.2446 IIIN 86		219,248 OPPING LIST					43,824			162,163			155,65

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 104

CLASSIFICATION:

BUDGET PROCUREMENT HISTO	RY AND PL	ANNING EX	(HIBIT (P-5A)			Weapon System		DATE:	FEBRUARY 2002	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM	NOMENCLATURE		•	SUBHEAD	
Other Procurement, Navy						PPORT EQUIPMENT 52460	00 / 524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2001										
L7003										
AEGIS COMPUTER CENTER										
COTS UPGRADE	1 LOT	800	NSWC DD	12/00	FP	VARIOUS	03/01	03/02	YES	
CABLES	1 LOT	200	NSWC DD	12/00	FP	VARIOUS	03/01	03/02	YES	
<u>L7005</u>										
SMARTSHIP TYPE SYSTEMS										
ENGINEERING	1 LOT	6036	NSWC PHIL	N/A	WR	N/A	N/A	TBD	N/A	
LOGISTICS	1 LOT	1875	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
TRAINING	1 LOT	420	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
ENG CHANGE PROPOSAL	1 LOT	2214	NAVSEA	N/A	FP	VARIOUS	11/00	N/A	N/A	
WIRELESS SENSORS	1 LOT	5000	NSWC Crane	N/A	RC	AEPTEC - MD	8/01	TBD	YES	
SHOCK TRIAL EQUIPMENT	1	1178	NAVSEA	N/A	СР	NORTHROP GRUMMAN	8/01	10/02	YES	
<u>L7006</u>										
scsc										
SYSTEM ENGINEERING	1 LOT	300	NAVSEA	12/00	FP	LOCKHEED - NEW JERSEY	3/01	09/01	YES	
EQUIPMENT MODERNIZATION	1 LOT	410	NSWC DD	12/00	FP	VARIOUS	3/01	09/01	YES	
EXCOMM EQUIPMENT	1 LOT	32	NAWCAD PAX RI	12/00	FP	VARIOUS	3/01	09/01	YES	
<u>L7007</u>										
ATRC										
COTS UPGRADE	1 LOT	815	NSWC DD	08/00	FP	VARIOUS	11/00	01/01	YES	
L7010										
AWS ORDALTS										
FAINT INVERTER	1	200	NAVSEA	08/00	ВОА	RAYTHEON- MASS	11/00	05/01	YES	
FIRE IN HIBIT SWITCH		56	NAVSEA	08/00	BOA	LM GES - NEW JERSEY	11/00	05/01	YES	
D REMARKS:	ı		_		_				-	

D. REMARKS:

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 104 Classification:

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BUDGET PROCUREMENT HISTORY	AND PL	ANNING EX	HIBIT (P-5A)			Weapon System		DATE: FEBR	UARY 2002	
B. APPROPRIATION/BUDGET ACTIVITY						OMENCLATURE			SUBHEAD	
Other Procurement, Navy					AEGIS SUP	PORT EQUIPMENT 52460	0 / 524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2001 (cont)										
<u>L7011</u>										
AWS SHIPALTS										
TIP CABINET	1 LOT	1100	NAVSEA	08/00	BOA	LM GES - NEW JERSEY	11/00	3/02	YES	
AWS SUPPORT EQUIP	1 LOT	164	NAVSEA	1/02	FP	VARIOUS	3/02	9/02	YES	
	. 20 .			.,,,			6,62	0,02	. =0	
L7013										
CLASS COMMON EQUIPMENT										
CCE FOR DDG-51 CLASS	1 LOT	199	SUPSHIP/BATH	08/00	FP	BIW - MAINE	7/01	11/01	YES	
CCE FOR CG-47 CLASS	1 LOT	199	SUPSHIP/PASC	08/00	FP	ISI- MISSISSIPPI	5/01	11/01	YES	
CCE FOR CG-47 CEASS	1 LO1	199	30F3HIF/FA3C	06/00	FF	131-1411331331771	5/01	11/01	123	
L7067										
USS COLE RESTORATION										
SPY RADAR	1	10500	NAVSEA	02/01	BOA	LM GES - NEW JERSEY	03/01	06/01	YES	
FISCAL YEAR 2002										
L7003										
AEGIS COMPUTER CENTER										
COMMERCIAL SYS MOD	1 LOT	896	NSWC DD	N/A	FP	VARIOUS	11/01	02/02	YES	
CABLES	1 LOT	200	NSWC DD	N/A	FP	VARIOUS	11/01	02/02	YES	
ASTATS SIM/EMULATORS	1 LOT	2500	NSWC DD	N/A	FP	SABTECH-CALIFORNIA	03/02	09/02	YES	
AOTATO GIIWIEMOLATORO	1 201	2300	NOVODD	IV/A		OADTEON-OALII ORINA	03/02	03/02	120	
D. REMARKS:								<u> </u>	l	l

D. REMARKS:

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 104 Classification:

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BUDGET PROCUREMENT HISTORY	AND PL	ANNING EX	HIBIT (P-5A)			Weapon System		DATE: FEBR	UARY 2002	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM N	OMENCLATURE			SUBHEAD	
Other Procurement, Navy					AEGIS SUP	PORT EQUIPMENT 52460	0 / 524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2002 (cont)										
<u>L7005</u>										
SMARTSHIP TYPE SYSTEMS										
SMARTSHIP UPGRADE (CG)	3	5200	NAVSEA	N/A	FP	NORTHROP GRUMMAN	VARIOUS	VARIOUS	YES	
TEST EQUIPMENT (DDG LBES)	1	5800	NSWC PHIL	06/02	RCP	TBD	TBD	TBD	YES	
ENGINEERING	1 LOT	6387	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
LOGISTICS	1 LOT	589	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
TRAINING	1 LOT	1283	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
<u>L7006</u>										
scsc										
COTS UPGRADES	1 LOT	655	NSWC DD	N/A	RCP	VARIOUS	11/01	2/02	YES	
SYSTEMS ENGINEERING	1 LOT	350	NAVSEA	N/A	RCP	LM GES - NEW JERSEY	11/01	2/02	YES	
COTS MODERNIZATION & SWITCHING	1 LOT	625	NSWC DD	08/01	RCP	LM TDS - MINNESOTA	11/01	2/02	YES	
EXCOMM	1 LOT	33	NAWCAD/PAX	08/01	RCP	VARIOUS	11/01	2/02	YES	
<u>L7007</u>										
ATRC										
COTS MODERNIZATION AND SWITCHING	1 LOT	1695	NSWC DD	09/01	ВОА	VARIOUS	11/01	04/02	YES	
D. REMARKS:			<u> </u>					<u> </u>		

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P-1 SHOPPING LIST ITEM NO. 104

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BUDGET PROCUREMENT HISTORY	AND PLA	NNING EXH	IIBIT (P-5A)			Weapon System		DATE: I	FEBRUARY 2002	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM I	NOMENCLATURE		•	SUBHEAD	
Other Procurement, Navy					AEGIS SUF	PPORT EQUIPMENT 52460	00/524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2002 (cont)										
<u>L7010</u>										
AWS ORDALTS										
DOPPLER CLUTTER FIX	3	200	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	
FAINT INVERTER	7	200	NAVSEA	09/01	BOA	RAYTHEON - MASSACHU	11/01	10/02	YES	
STAMO	2	864	NAVSEA	09/01	BOA	RAYTHEON - MASSACHU	11/01	01/03	YES	
SPY AIR FLOW FILTER UPGRADE	1 LOT	943	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	
MK18 CND/UWS INTERFACE	1 LOT	43	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	
Q-70 6 PH 1 ORDALTS	1 LOT	579	NAVSEA	09/01	ВОА	LMTDS - MINNESOTA	12/01	06/02	YES	
<u>L7011</u>										
AWS SHIPALTS										
TIP CABINET	5	800	NAVSEA	08/01	BOA	LM GES - NEW JERSEY	12/01	09/03	YES	
TIP SWITCH	12	50	NSWC PHD	09/01	FP	VARIOUS	11/01	12/02	YES	
UYK-43 CARDS	1 LOT	120	NAVSEA	08/01	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	
Q-70'S FOR DDG 79	1 LOT	9347	NAVSEA	08/01	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	
Q-70'S FOR DDG 83	1 LOT	4755	NAVSEA	08/01	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	
DDG UPGRADE LONG LEAD DDG 84/80	1 LOT	4665	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	12/02	YES	
SGS IN-LINE KITS	21	89	NAWCAD/ PAX	09/01	FP	VARIOUS	12/01	12/02	YES	
CLSD's	14	38.5	NRAD	09/01	FP	VARIOUS	12/01	12/02	YES	
SPY FLEX HOSE KITS	1 LOT	869	NSWC PHD	10/01	FP	VARIOUS	12/01	05/02	YES	
ORTSNET	4	208	NSWC PHD	10/01	FP	VARIOUS	12/01	07/02	YES	
Q-70 SUPPORT EQUIPMENT	1 LOT	2374	VARIOUS	10/01	FP	VARIOUS	12/01	12/02	YES	
Q-70's FOR DDG 84	1 LOT	1580	NAVSEA	02/02	FP	LM TDS - MINNESOTA	03/02	03/03	YES	
MTO EQUIP/TECH SUPPORT	1 LOT	400	NSWC PHD	02/02	BOA	VARIOUS	03/02	01/03	YES	
CDLMS AWS SUPPORT EQUIPMENT	1 LOT	20	SPAWAR	02/02	FP	VARIOUS	03/02	12/02	YES	
D. REMARKS			1 CHOPPING LIGH		101		Cl:f:+:			

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BUDGET PROCUREMENT HISTORY AND I	PLANNIN	G EXHIBIT (F	P-5A)			Weapon System		DATE: FEE	BRUARY 2002	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM I	I NOMENCLATURE			SUBHEAD	
Other Procurement, Navy					AEGIS SUPI	ORT EQUIPMENT 524600/52	24605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2002 (cont)										
<u>L7013</u>										
CLASS COMMON EQUIPMENT										
CCE FOR DDG-51 CLASS	1 LOT	768	SUPSHIP/BATH	08/01	FP	BIW - MAINE	02/02	02/03	YES	
CCE FOR CG-47 CLASS	1 LOT	768	SUPSHIP/PASC	08/01	FP	ISI LITTON - MISSISSIPPI	02/02	02/03	YES	
<u>L7021</u>										
CRUISER CONVERSION										
LANDBASED SITES EQUIPMENT (NJ/VA)	1 LOT	68104	NAVSEA	TBD	FFP	VARIOUS	02/02	12/02	YES	
FISCAL YEAR 2003										
<u>L7003</u>										
AEGIS COMPUTER CENTER										
COMMERCIAL SYS MOD	1 LOT	927	NSWC DD	10/02	FP	VARIOUS	01/03	6/03	YES	
CABLES	1 LOT	200	NSWC DD	10/02	FP	VARIOUS	01/03	6/03	YES	
<u>L7005</u>										
SMARTSHIP TYPE SYSTEMS										
SMARTSHIP UPGRADE (CG)	1	5200	NAVSEA	N/A	TBD	VARIOUS	11/02	5/03	YES	
ENGINEERING	1 LOT	3319	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
LOGISTICS	1 LOT	1166	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
TRAINING	1 LOT	153	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
D. REMARKS			<u> </u>						<u> </u>	<u> </u>

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BUDGET PROCUREMENT HISTORY	AND PLAN	INING EXHI	BIT (P-5A)			Weapon System		DATE:	FEBRUARYY 2002	
B. APPROPRIATION/BUDGET ACTIVITY						OMENCLATURE			SUBHEAD	
Other Procurement, Navy	•			_	AEGIS SUF	PORT EQUIPMENT 5246	00 / 524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2003 (cont)										
<u>L7006</u>										
scsc										
COTS UPGRADES	1 LOT	1709	NSWC DD	10/02	FP	VARIOUS	1/03	10/03	YES	
<u>L7007</u>										
ATRC										
COTS MODERNIZATION	1 LOT	1743	NSWC DD	10/02	FP	VARIOUS	1/03	10/03	YES	
AND SWITCHING										
<u>L7010</u>										
AWS ORDALTS										
STAMO	2	990	NAVSEA	09/02	ВОА	RAYTHEON - MASS	12/02	12/03	YES	
RAVE CAMERA	1 LOT	587	NAVSEA	10/02	ВОА	LM GES - NEW JERSEY	12/02	12/03	YES	
SPY TWT	1 LOT	615	NAVSEA	10/02	BOA	LM GES - NEW JERSEY	1/03	12/03	YES	
ORTS PRINTERS	1 LOT	600	NAVSEA	11/02	BOA	LM GES - NEW JERSEY	1/03	12/03	YES	
CND/SONAR TEMP CONTROL VALVE	1 LOT	1480	NAVSEA	11/02	ВОА	LM GES - NEW JERSEY	1/03	12/03	YES	
D. REMARKS:	<u> </u>		•	-	-			-	-	-

D. REMARKS:

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BUDGET PROCUREMENT HISTOF	RY AND PLA	NNING EXI	HIBIT (P-5A)			Weapon System		DATE: I	FEBRUARY 2002	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM N	IOMENCLATURE			SUBHEAD	
Other Procurement, Navy					AEGIS SUP	PORT EQUIPMENT 5246	00/524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2003 (cont)										
<u>L7011</u>										
AWS SHIPALTS										
TIP CABINET	4	800	NAVSEA	10/02	BOA	LM GES - NEW JERSEY	12/02	12/03	YES	
TIP SWITCH	8	50	NSWC PHD	10/02	FP	VARIOUS	12/02	12/03	YES	
SGS IN-LINE KITS	23	89	NAWCAD/PAX	10/02	FP	VARIOUS	12/02	12/03	YES	
SPY FLEX HOSE KITS	1 LOT	250	NSWC PHD	10/02	FP	VARIOUS	12/02	12/03	YES	
ORTS NET	2	208	NSWC PHD	10/02	FP	VARIOUS	12/02	12/03	YES	
UYK-43 CARDS	1 LOT	203	NAVSEA	10/02	BOA	LM TDS - MINNESOTA	12/02	12/03	YES	
Q-70's FOR DDG 80	1 LOT	13775	NAVSEA	10/02	BOA	LM TDS - MINNESOTA	12/02	12/03	YES	
Q-70's FOR DDG 84	1 LOT	11800	NAVSEA	10/02	BOA	LM GES - NEW JERSEY	12/02	12/03	YES	
Q-70 SUPPORT EQUIPMENT	1 LOT	779	VARIOUS	10/02	FP	VARIOUS	12/02	12/03	YES	
Q-70's FOR DDG 68/65/53/51	4	7985	NAVSEA	10/02	BOA	LM TDS - MINNESOTA	11/02	1/04	YES	
<u>L7013</u>										
CLASS COMMON EQUIPMENT										
CCE FOR DDG-51 CLASS	1 LOT	1000	SUPSHIP / BATH	10/02	FP	BIW - MAINE	12/02	12/03	YES	
CCE FOR CG-47 CLASS	1 LOT	1000	SUPSHIP / PASC	10/02	FP	ISI LITTON - MISS	12/02	12/03	YES	
<u>L7022</u> AADC										
AADC CAPABILITY SYSTEMS	5	4180.6	NAVSEA	TBD	CPFF/CPAF	GD-GREENSBORO NC	TBD	FY 03/03	TBD	ONGOING
D. REMARKS					104		l	<u> </u>	J	l

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BUDGET PROCUREMENT HISTORY AN			Weapon System		DATE :	FEBRUARY 2002				
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy						 NOMENCLATURE PORT EQUIPMENT 524600/	/524605		SUBHEAD A4L7	
- Circi i rocarcinoni, navy					CONTRACT	CITY EQUIT MENT 524000	1	DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR	,	COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2003 (cont)										
<u>L7023</u>										
INTEGRATED BRIDGE SYSTEM (IBS)										
IBS UPGRADE	8	1500	NAVSEA	N/A	FP	VARIOUS	11/02	3/03	YES	
ENGINEERING	1 LOT	1861	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
LOGISTICS	1 LOT	558	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
TRAINING	1 LOT	372	NSWC PHIL	N/A	WR	N/A	N/A	N/A	N/A	
D REMARKS										

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P3A	II	NDIVIDUAL	MODI	FICATIO	ON															
MODELS OF SYSTEM AFFECTED:	AEGIS	WEAPONS S	SYSTEM	/IS	TYI	PE MOD	IFICA	TION:	DEPO	OT SPEC	IAL T	OOLING	_		MOD	IFICATI	ON TI	TLE:		
DESCRIPTION/JUSTIFICATION:																				
Depot Special Tooling and Test Equipment are This special support equipment is required to manot be able to support its mission.																	n will fa	all into d	isrepai	ir and will
DEVELOPMENT STATUS/MAJOR DEVELOPME	ENT MILEST	ONES:																		
	FY 200	00 & Prior	<u>FY</u>	<u> 2001</u>	<u>FY</u>	2002	<u>FY</u>	2003	<u>FY</u>	<u>′ 2004</u>	<u>F</u>	<u> 2005</u>	<u>F\</u>	2006	FY	2007		<u>TC</u>	Ī	OTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
<u>RDT&E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	2.2	VAR	0.7	VAR	4.8	VAR	0.9	VAR	0.9	VAR	0.9	VAR	0.8	VAR	0.8	VAR	TBD	VAR	12.0
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST		2.2		0.7		4.8		0.9		0.9		0.9		0.8		0.8		TBD		12.0

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P3A	IN	IDIVIDUAL	MODIF	ICATIO	N															
MODELS OF SYSTEM AFFECTED:	AEGIS \	WEAPONS S	SYSTEM	S	TYPE	MODII	FICATI	ON:	AEGIS	S COMP	UTER	CENTE	<u>R</u>		MOD	IFICAT	ION TI	TLE:		
DESCRIPTION/JUSTIFICATION:																				
The AEGIS Computer Center (ACC) requires	s OPN equip	pment upgr	ades in	order to	maint	tain test	ting cap	pabilities	for ba	ckfit com	puter	program	basel	ines.						
DEVELOPMENT STATUS/MAJOR DEVELOF	PMENT MIL	ESTONES	i:																	
	FY 200	0 & Prior	FY	2001	<u>FY</u>	2002	<u>FY</u>	2003	<u>FY</u>	2004	<u>FY</u>	2005	<u>FY</u>	2006	<u>FY</u>	2007		<u>TC</u>	I	<u>OTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	3.0	VAR	1.0	VAR	3.6	VAR	1.1	VAR	1.2	VAR	1.2	VAR	1.4	VAR	1.5	VAR	TBD	VAR	13.9
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																		<u> </u>		
TOTAL PROGRAM COST		3.0		1.0		3.6		1.1		1.2		1.2		1.4		1.5		TBD		13.9

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TOTAL PROGRAM COST

70.1

24.0

35.1

P3A		INDIVIDUAI	L MOD	IFICATION															-	
MODELS OF SYSTEM AFFECTED:	AEGI	S WEAPONS	<u> </u>	MODIFIC	ATION	:	SMAF	RTSHIP		_ .			MOE	DIFICATION	TITLE	:				
DESCRIPTION/JUSTIFICATION:																				
Funds will be used to backfit labor saving S	Smartshi	ip enabling te	echnolo	gies on CG	and D	DDG class sh	ips.													
DEVELOPMENT STATUS/MAJOR DEVELO	PMEN	T MILESTON	NES:							_										
	FY 2	000 & Prior \$	<u>I</u> QTY	FY 2001 \$	QTY	<u>FY 2002</u> \$	<u>F</u> QTY	FY 2003 \$	QTY	FY 2004 ′\$	QTY	FY 2005 \$	QTY	FY 2006 \$	QTY	<u>FY 2007</u> \$	QTY	<u>TC</u> \$	<u>1</u> QTY	ΓΟΤΑL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	4	34.0	0	0.0	3	15.6	1	5.2	1	4.3			1	5.2			60	TBD	70	64.3
EQUIPMENT NONRECURRING		5.0		5.0																10.0
TEST EQUIPMENT		2.3			1	5.8													1	8.1
TRAINING EQUIPMENT		6.6																		6.6
SUPPORT EQUIPMENT				1.1																1.1
ENGINEERING		19.1		6.0		6.4		3.3		2.4		2.6		2.2		2.3		TBD		44.3
LOGISTICS		1.3		1.9		0.6		1.2		0.8		1.0		0.8		0.7		TBD		8.3
TRAINING		0.4		0.4		1.3		0.2		0.1		0.1		0.1		0.2		TBD		2.8
ENGINEERING CHANGE PROPOSALS		1.4		2.2																3.6
INICTALL COCT		0.0		7.0		F 4		40.0		- A		4.7		0.0		5 4		TDD		20.0

20.7

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8.3

8.6

60

TBD

71

188.2

8.4

13.0

P3A (Continued)					INDIVIE	DUAL M	ODIFI	CATIO	N (Co	ntinued)																
MODELS OF SYS	TEMS AFF	ECTE	D:	AWS			_		MOD	IFICATION	TIT NC	L <u>E:</u>		SMA	RTSH	HIP										
INSTALLATION IN	IFORMATIO	ON:																								
METHOD OF IMPL	LEMENTAT	TION:																								
ADMINISTRATIVE	LEADTIME	E:	12	months	3		PR	ODUC	TION	LEADTIN	1E:	1	2 mon	ths			-									
CONTRACT DATE	ES:	FY 2	000:	N/A			FY	2001:		N/	Α					FY 2	002:	_		Novemb	<u>oer</u> 200	1				
DELIVERY DATE:		FY 2	000:	N/A			FY	2001:			N/A					FY 2	002:	_		March 2	2002					
												(\$ in	Millior	ns)												
Cost:			r Years		Y 2001		FY 20			2003		FY 200	4	F	Y 200			2006		Y 2007		Complete		Tot		
		Qty	\$	Qty	\$	Qty	/	\$	Qty	\$	Qty	1	\$	Qty		\$	Qty	\$	S Qty	\$	Qty	\$	Qty	′	\$	
PRIOR YEARS		3 *	0.0	1	7.3																			4	7.3	
FY 2000 EQUIPM	MENT																							0	0.0	
FY 2001 EQUIPM	MENT																							0	0.0	
FY 2002 EQUIPM	MENT						1	5.4	2	10.8														3	16.2	
FY 2003 EQUIPM	MENT										1	1 .	5.4											1	5.4	
FY 2004 EQUIPM	MENT													1	4	4.7								1	4.7	
FY 2005 EQUIPM	MENT																								0.0	
FY 2006 EQUIPM	MENT																			1 5.4				1	5.4	
FY 2007 EQUIPM	MENT																							0	0.0	
TO COMPLETE																					6	0 TBD	7	1	TBD	
INSTALLAT	ION SCHE	DULE																						_		
F	FY 2000		FY 2001	_		Y 2002			FY 20				2004		\ . \ \	FY 2				2006	$\ \ _{\cdot}$		2007	ı	TC	TOTAL
<u> </u>	& Prior	1	2 3			2 3				3 4	1	2	3	4	1	2		4	1 2			2	3 4			1
IN	var		var vai																	var va		r var v			var	var
OUT	var	var	var vai	r var	var v	var va	r var	var	var	var var	var	var	var	var	var	var	var	var	var var	var va	ar va	r var v	/ar va	r	var	var
* Funding for FY99	and prior in	nstalla	itions bud	geted in	equipm	ent prod	cureme	ent line	(see F	P3A page	13).	Fundin	g trans	sferred	to ins	stallatio	on line f	for F	Y01 and o	utyears.						
																						_				
								ľ	TEM	104	P	AGE	15							CL	ASSIF	P ICATION:	-3A UNCL	ASSIF	IED	

CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVIDUAL	MODII	FICATIO	N															
MODELS OF SYSTEM AFFECTED:	AEGIS	S WEAPONS S	<u>Y</u> TYPI	E MODII	FICATI	ON:	SURF	ACE CO	OMBAT	T SYSTE	М СЕ	NTER		-	M	ODIFICA	TION	TITLE:		_
DESCRIPTION/JUSTIFICATION:																				
The Surface Combat System Center (SCSC	C) AT Wall	ops Island, V	A. req	uires OF	PN equ	ipment	upgrade	es in ord	er to m	naintain t	testing	and train	ning ca	apabilitie	s for t	he Fleet				
DEVELOPMENT STATUS/MAJOR DEVELOR	PMENT MI	LESTONES:																		
						, ,,,,,,		, 0000			_	.,	_	, 0000	_	/ 000 7		TO	то	T.4.1
	QTY	000 & Prior \$		<u>/ 2001</u> \$	QTY	<u>2002</u> \$	<u>F Y</u> QTY	<u>2003</u> \$	QTY	<u>2004</u> \$	QTY	Y 2005 \$	QTY	<u>/ 2006</u> \$	QTY	<u>Y 2007</u> \$	QTY	<u>TC</u> \$	QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	4.4	VAR	0.7	VAR	1.7	VAR	1.7	VAR	1.7	VAR	1.9	VAR	1.5	VAR	1.5	VAR	TBD	VAR	15.1
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST		4.4		0.7		1.7		1.7		1.7		1.9		1.5	1	1.5		TBD		15.1

1.7 ITEM 104

PAGE NO. 16

TBD 15.1
CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
P3A	ı	INDIVIDUAI	L MODI	FICATION	ON															
MODELS OF SYSTEM AFFECTED:	AEGIS	WEAPONS	<u>s`</u> TYPI	E MODII	FICATI	ON:	AEGI	S TRAIN	IING &	READI	NESS	CENTER	2		ı	MODIFIC	CATIO	N TITLE:		<u>=</u>
DESCRIPTION/JUSTIFICATION:																				
This program provides for the upgrade of the	equipment	at the AEG	IS Trair	ning and	Readi	ness ce	nter so	that the	site ca	n mainta	in trai	ning capa	abilitie	s for the	Fleet.					
DEVELOPMENT STATUS/MAJOR DEVELOP	MENT MILE	ESTONES:								-										
		000 & Prior		<u>/ 2001</u>		<u> 2002</u>		2003		<u> 2004</u>		<u> 2005</u>	<u>FY</u>	2006	<u>F\</u>	2007		<u>TC</u>		<u>TAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY T	\$ 	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY T	\$ I
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	3.4	VAR	0.8	VAR	1.7	VAR	1.7	VAR	1.8	VAR	1.8	VAR	1.5	VAR	1.5	VAR	TBD	VAR	14.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST		3.4		0.8		1.7		1.7		1.8		1.8		1.5		1.5		TBD		14.2

1.7 ITEM 104

PAGE NO. 17

TBD 14.2
CLASSIFICATION: UNCLASSIFIED

P3A		INDIVIDUAL	MOD	IFICATIO	N															
MODELS OF SYSTEM AFFECTED:	AEGIS \	WEAPONS SY	<u>s'</u> TYP	E MODIF	CATION	ON:	AWS	ORDAL	ΓS	-			MOD	IFICATION	TT NC	ΓLE:				-
DESCRIPTION/JUSTIFICATION:																				
This program provides for procurement are life of the ships.	nd installation	n of safety, re	quired	fielding,	and op	erability	modific	cations to	core A	EGIS W	eapor	n System	(AWS) elemer	nts. Ti	nese red	quireme	ents continu	ue through t	he
DEVELOPMENT STATUS/MAJOR DEVELO	OPMENT MI	ILESTONES:								-										
	FY 2	2000 & Prior	<u>F</u>	<u> 2001</u>	FY	2002	FY	2003	FY	2004	<u>F`</u>	<u> 2005</u>	FY	2006		2007		<u>TC</u>	<u>TO</u>	<u>TAL</u>
_	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	37.3	VAR	0.3	VAR	5.3	VAR	5.3	VAR	5.7	VAR	6.7	VAR	7.8	VAR	8.1	VAR	TBD	VAR	76.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				

OTHER

INSTALL COST

TOTAL PROGRAM COST

INTERIM CONTRACTOR SUPPORT

15.4

52.7

8.0

1.1

4.3

9.6

3.6

8.9

4.4

10.1

3.0

10.8

2.8

10.9

3.2

9.9

TBD

TBD

37.5

114.0

P3A (Continued)					INDIVI	DUAL	MOD	IFICATIO	N (Co	ontinued)																	
MODELS OF SYS	STEMS AF	FECT	ED:	AWS					MOE	DIFICATION	TIT NO	LE:		ORD	NANO	CE ALT	TERAT	rions	S								
INSTALLATION II	NFORMAT	ION:																									
METHOD OF IMP	LEMENTA	TION	: AIT	(PHD))																						
ADMINISTRATIVI	E LEADTIN	ΛE:		Month	ıs		F	PRODUC	TION	LEADTIN	E:			Mont	ths												
CONTRACT DAT			000: Ju				F	Y 2001:		Novem	ber 00)				FY 20	002:		Dec	ember	01						
DELIVERY DATE			000: Ap					Y 2001:			h 02					FY 20		_		ember		_					
												(\$ ir	n Millio	ns)													
Cost:		Prio	Years	FY	′ 2001		FY 2	2002	F۱	/ 2003		FY 200		F	Y 200)5	FY	′ 2006	6	F۱	2007	To C	omplete			otal	
		Qty	\$	Qty	\$	C	Qty	\$	Qty	\$	Qty		\$	Qty	;	\$	Qty	\$	5	Qty	\$	Qty	\$	Qt	у	\$	
PRIOR YEARS			15.4																					VAI	₹	15.4	
FY 2000 EQUIP	MENT			VAR	(0.8																		VAI	₹	0.8	
FY 2001 EQUIP	MENT					V	AR	4.3																VAI	₹	4.3	
FY 2002 EQUIP	MENT								VAR	3.6	6													VAI	R	3.6	
FY 2003 EQUIP	MENT										VAR		4.4											VAI	R	4.4	
FY 2004 EQUIP	MENT													VAR		3.2								VAI	₹	3.2	
FY 2005 EQUIP	MENT																VAR		3.0					VAI	R	3.0	
FY 2006 EQUIP	MENT																			VAR	2	.8		VAI	R	2.8	
FY 2007 EQUIP	MENT																							VAI	₹	0.0	
TO COMPLETE																							TBD	VAI	2	TBD	
INSTALLA ⁻	TION SCH	EDUL	E:																								
	FY 2000		FY 2001	1		FY 200	n2		FY 2	003	1	EV	2004			FY 2	005			FY 2	006		EV	2007	_	TC	TOTAL
	& Prior	1	2 3		_		3	4 1		3 4	1	2	3	4	1	2	3	4	1	2	3 4	1	2	3 4			IOIAL
IN	var	var	var var	var	var v	⁄ar v	∕ar v	ar var	var	var var	va	r var	var	var	var	var	var	var	var	var	var va	r var	var	var va	ar	var	var
OUT	var	var	var var	var	var v	ar v	/ar v	ar var	var	var var	va	r var	var	var	var	var	var	var	var	var	var va	r var	var	var va	ar	var	var
																							_				
								17	ГЕМ	104		PAGE	10								CI	ΔΟΟΙΕΙ	F CATION:	P-3A	V & & I E	IED	

CLASSIFICATION: UNCLASSIFIED P3A	I	NDIVIDUA	L MOD	IFICATI	ON															
MODELS OF SYSTEM AFFECTED:	AEGIS V	WEAPONS S	SY TYPI	E MODII	FICATI	ON:	AWS	SHIPAL	TS	_			MOE	IFICATION	TI NC	TLE:				-
DESCRIPTION/JUSTIFICATION:																				
This program provides for procurement of ma vary in scope and will be installed primarily b									lity mo	odificatio	ns. Ti	nese req	uireme	ents conti	inue th	nrough the	e life of	the ships	These S	HIPALTS
DEVELOPMENT STATUS/MAJOR DEVELOP	PMENT MIL	ESTONES:	:																	
	FY 20 QTY	000 & Prior \$	<u>FY</u> QTY	<u>′ 2001</u> \$	<u>FY</u> QTY	<u>2002</u>	<u>FY</u> QTY	<u>2003</u>	<u>F`</u> QTY	<u>/ 2004</u> \$	<u>F\</u> QTY	<u>/ 2005</u> \$	<u>F`</u> QTY	<u>/ 2006</u> \$	<u>F</u> QTY	Y 2007 \$	QTY	<u>TC</u> \$	<u>T(</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)		•		*		,								*				·		
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	29.7	VAR	1.3	VAR	31.9	VAR	64.8	VAR	76.0	VAR	77.7	VAR	92.9	VAR	90.8	VAR	TBD	VAR	465.1
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				

6.3

71.1

3.7

35.6

2.9

4.2

23.3

53.0

INSTALL COST

TOTAL PROGRAM COST

8.1

4.2

81.9

9.1

102.0

9.7

100.5

67.3

532.4

TBD

TBD

P3A (Continued)					INDIVI	DUAL N	IODIF	ICAT	ION (C	ontinu	ied)																		
MODELS OF SYS	STEMS AF	FECT	ED:	AWS			_		MODI	IFICAT	ION T	TTLE:		AWS	SHIP	ALTER	RATIO	NS											
INSTALLATION II	NFORMAT	ΓΙΟΝ:																											
METHOD OF IMP	PLEMENTA	ATION	l: Pu	blic & I	Private S	Shipyard	Avail	labilitie	es; AIT																				
ADMINISTRATIV						_ ' '			CTION		IMF.																		
CONTRACT DAT			2000: <u>J</u> u	ulv 00	-			2001:			vembe	er 00					FY 20	002:		Dec	ember	01							
DELIVERY DATE			2000: Ju					2001:			March						FY 20				nuary 0								
					_								(Φ:	. N 4:11: -															
Cost:		Prior	r Years	FY	2001	F	Y 200	2	F	Y 2003	1	F`	(\$ ir Y 2004	n Millic		Y 2005	5	F۱	Y 2006	3	FY	2007		To Cor	mplete	, T	т	otal	
		Qty	\$	Qty	\$	Qty	_	\$	Qty	\$		Qty	\$		Qty		\$	Qty		\$	Qty	\$		Qty	\$		Qty	\$	
PRIOR YEARS		VAR	23.3						-			-			_			-			-			J		,	VAR	23.3	
FY 2000 EQUIPI	MENT			VAR	2.	9																					VAR	2.9	
FY 2001 EQUIPI	MENT					VAR		3.7																		,	VAR	3.7	
FY 2002 EQUIP	MENT								VAR		6.3															,	VAR	6.3	
FY 2003 EQUIP	MENT											VAR		8.1											<u> </u>	,	VAR	8.1	
FY 2004 EQUIPI	MENT														VAR		4.2									,	VAR	4.2	
FY 2005 EQUIPI	MENT																	VAR		9.1						,	VAR	9.1	
FY 2006EQUIPN	MENT																				VAR		9.7			,	VAR	9.7	
FY 2007 EQUIP	MENT																									,	VAR	0.0	
TO COMPLETE																								VAR	TBD	D,	VAR	TBD	
INSTALLA ⁻	TION SCH	IEDUL	.E:																										
	FY 2000		FY 200	<u>1</u>	F	Y 2002			FY 2	2003			FY 2	2004			FY	2005			FY 20	006			FY	2007	_	TC	TOTAL
	& Prior	1	2 3	4	1 2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
IN	var	var	var var	var	var va	r var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
OUT	var	var	var var	var	var va	r var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var v	var	var	var	var
									ITEM	10	<u>14</u>	P/	\GE	21									CI AS	SSIFIC		P-3A J: UN	CLASS	MEIED	
										10															OIV				

CLASSIFICATION: UNCLASSIFIED																				
РЗА	I	NDIVIDUAL	MODI	FICATION																
MODELS OF SYSTEM AFFECTED:	AEGIS \	WEAPONS S	<u>Y:</u> TYPE	MODIFIC	OITA	۷:	CLAS	S COM	MON E	QUIPME	ENT		MOD	IFICATI	ON TI	TLE:				-
DESCRIPTION/JUSTIFICATION:																				
CLASS Common Equipment is battle spare HI and DDG-51 Ship Classes will each need on s						shipyar	ds in Pa	ascagou	ıla, MS	and Bat	th, ME	. This e	quipm	ent is typ	oically	long lea	d item	s that the (CG-47	
DEVELOPMENT STATUS/MAJOR DEVELOPM	IENT MILES	ΓONES:																		
	<u>FY 200</u> QTY	<u>0 & Prior</u> \$	<u>E</u> QTY	<u>Y 2001</u> \$	<u>F\</u> QTY	<u>′ 2002</u> \$	<u>FY</u> QTY	<u>2003</u>	<u>FY</u> QTY	<u>/ 2004</u> \$	<u>F\</u> QTY	<u>/ 2005</u> \$	<u>F\</u> QTY	<u>/ 2006</u> \$	<u>F\</u> QTY	<u>/ 2007</u> \$	QTY	<u>TC</u> \$	<u>TO</u> QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)																				
<u>RDT&E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	3.3	VAR	0.4	VAR	1.5	VAR	2.0	VAR	2.0	VAR	2.0	VAR	1.3	VAR	1.2	VAR	TBD	VAR	13.7
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				

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3.3

TOTAL PROGRAM COST

2.0

2.0

TBD 13.7
CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED	
P3Δ		INDIVIDUAL MODIFICATION

1 3/1	INDIVIDUAL MODII ICATION			
MODELS OF SYSTEM AFFECTED:	AEGIS WEAPONS SYLTYPE MODIFICATION:	FIELD ACT'Y INTEG COMMON FOLLIP	MODIFICATION TITLE:	

DESCRIPTION/JUSTIFICATION:

Field Activity Integrated equipment is required in order for the program office to maintain communications with a field activities and NAVAL Shipyards. This communications gear is necessary for keeping CG-47 and DDG-51 events coordinated and it is required for keeping travel expenses down.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 200 QTY	00 & Prior \$	<u>FY</u> QTY	<u>2001</u>		2002 \$	<u>FY</u> QTY	2003 \$	<u>FY</u> QTY	2004 \$	<u>FY</u> QTY	<u>2005</u> \$		<u>2006</u> \$		<u>2007</u>	QTY	<u>TC</u> \$	<u>TO</u> QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)				·		•		·		·		·		·		·		·		·
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	0.8	VAR	0.4	VAR	0.4	VAR	0.4	VAR	0.4	VAR	0.4	VAR	0.4	VAR	0.4	VAR	TBD	VAR	3.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST		0.8		0.4		0.4 ITEM	104	0.4		0.4		0.4		0.4		0.4		TBD		3.6 ASSIFIED

PAGE NO. 23

UNCLASSIFIED

P3A	IN	NDIVIDUAL	. MODI	FICATI	ON															
MODELS OF SYSTEM AFFECTED:	AEGIS	CRUISERS	TYPE	MODII	FICATI	ON:	CG C	ONVERS	SION				MOD	IFICATIO	DN TIT	LE:				
DESCRIPTION/JUSTIFICATION:																				
Funds will be used to bring new combat capa Note: AADC Comm Suite separately funded.		G 47 class s	ships, ir	ncluding	J Land	Attack a	nd Area	Air Defe	ense Co	mmande	er.									
DEVELOPMENT STATUS/MAJOR DEVELOP	MENT MILE	STONES:																		
	FY 200 QTY	00 & Prior \$	<u>FY</u> QTY	2001 \$	<u>F`</u> QTY	<u>Y 2002</u> \$	<u>FY</u> QTY	<u>′ 2003</u> \$	<u>F\</u> QTY	<u> 2004</u> \$	<u>F</u> QTY	Y 2005 \$	<u>F</u> QTY	<u>Y 2006</u> \$	<u>F</u> QTY	<u>Y 2007</u> \$	QTY	<u>TC</u> \$	<u>TO</u> QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)																				
<u>RDT&E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT					0	0.0														0.0
EQUIPMENT NONRECURRING						0.0														0.0
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
LOGISTICS						0.0														0.0
TRAINING						0.0														0.0
SITES EQUIPMENT						68.1														68.1
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST						0.0														0.0
TOTAL PROGRAM COST						68.1														68.1

ITEM 104 PAGE NO. 24 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
P3A	1	NDIVIDUAL	MODIF	ICATIO	ON															
MODELS OF SYSTEM AFFECTED:	AEGIS V	WEAPONS S'	Y TYPE I	MODIF	FICATI	ON:	AADO	;					MOD	IFICATIO	ON TI	ΓLE:				
DESCRIPTION/JUSTIFICATION:																				
Funds will be used to procure and install AAL	OC Capabili	ty Systems.																		
DEVELOPMENT STATUS/MAJOR DEVELOP	PMENT MIL	ESTONES:																		
		000 & Prior	FY 2			2002		2003		2004		<u> 2005</u>		2006		Y 2007		TC _	_	OTAL _
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QIY	\$	QIY	\$	QTY	\$	QTY	\$ I	QIY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT							5	20.9	3	12.0	1	6.0	1	5.5	VAR	11.9	VAR	TBD	10	56.3
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST								11.5		6.1		5.2				5.1		TBD		27.9
TOTAL PROGRAM COST		0.0		0.0		0.0	5	32 4	3	18 1	1	11 2	1	5.5	0	17.0	0	TRD	10	84.2

ITEM 104

PAGE NO.

25

| 0 | IBD | 10 | 84.2 | CLASSIFICATION: UNCLASSIFIED

P3A (Continued)					INDIVID	UAL M	ODIF	ICATI	ON (C	ontinu	ed)																		
MODELS OF SY	STEMS AF	FECT	ED:	AWS			_		MODI	FICAT	ION T	ITLE:		AADO															
INSTALLATION I			1-																										
METHOD OF IMI						_																							
ADMINISTRATIV				month	-					LEADT	IME:				6 to 9	month													
CONTRACT DAT	ΓES:	FY 2	:000:	N/A	_		FY:	2001:			N	/A					FY 20	002:			N/A	4							
DELIVERY DATE	≣:	FY 2	:000:	N/A	_		FY:	2001:			N	/A					FY 20	002:			N/A	Α							
													(\$ ir	n Millic	ns)														
Cost:			Years		2001		2002			Y 2003			Y 2004			Y 2005			Y 2006			2007			mplete			otal	
		Qty	\$	Qty	\$	Qty	5	5	Qty	\$		Qty	\$	i	Qty	(\$	Qty	9	5	Qty	\$	i	Qty	\$	Qt	/	\$	
PRIOR YEARS																												0.0	
FY 2000 EQUIP	PMENT																											0.0	
FY 2001 EQUIP	PMENT																											0.0	
FY 2002 EQUIP	PMENT																											0.0	
FY 2003 EQUIP	PMENT								5		11.5																5	11.5	
FY 2004 EQUIP	PMENT											2		6.1	1		2.6										3	8.7	
FY 2005 EQUIP	PMENT														1		2.6										1	2.6	
FY 2006EQUIPI	MENT																				1		5.1				1	5.1	
FY 2007 EQUIP	PMENT																											0.0	
TO COMPLETE	<u> </u>																								TBD		10	27.9	
INSTALLA	TION SCH	EDUL	.E:																										
	FY 2000		FY 200	<u>1</u>	FY	2002			FY 2	2003			FY 2	2004			FY	2005			FY 20	006			FY 2	2007	_	TC	TOTAL
	& Prior	1	2 3	4	1 2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2 3	3 4			
IN	var	var	var var	var	var var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var v	ar va	ır	var	var
OUT	var	var	var var	var	var var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var v	ar va	ır	var	var
									ITEN 4	4.0			VOE	00									01.40	OIFIC		-3A	A 00:	FIED	
								- 1	ITEM	10	14	P/	\GE	26									CLAS	SIFIC	ATION:	UNCL	ASSI	⊦IED	

P3A UNCLASSIFIED		INDIVIDUAL	_ MOE	DIFICATION	I															
MODELS OF SYSTEM AFFECTED:	AEGI	IS WEAPONS	<u> </u>	E MODIFIC	ATION	:	IBS			_			MOD	IFICATION	TITLE	:				
DESCRIPTION/JUSTIFICATION:																				
Funds will be used to backfit IBS on AEGIS	S class s	ships.																		
DEVELOPMENT STATUS/MAJOR DEVELO		T MILESTON		FY 2001		FY 2002		=Y 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL
	QTY		QTY		QTY		QTY	\$	QTY		QTY		QTY		QTY		QTY	<u>TC</u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT/INSTALLATION							8	12.0	8	12.0	10	15.0	17	25.5	6	9.0		TBD	49	73.5
EQUIPMENT NONRECURRING																				0.0
TEST EQUIPMENT																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
ENGINEERING								1.9		2.0		1.9		4.1		1.8		TBD		11.7
LOGISTICS								0.5		0.6		0.6		1.0		0.6		TBD		3.3
TRAINING								0.4		0.4		0.4		0.7		0.4		TBD		2.3
ENGINEERING CHANGE PROPOSALS																				0.0
INSTALL COST																		TBD		0.0

15.0

0.0

0.0

TOTAL PROGRAM COST

0.0 8 ITEM 104 10 17.9 17 31.3 0 TBD 49 90.8
CLASSIFICATION: UNCLASSIFIED 11.8

90.8

UNCLASSIFIED																				
P3A	IN	NDIVIDUA	L MOE	DIFICAT	ION															
MODELS OF SYSTEM AFFECTED:	USS CO	OLE	TYPE	MODIF	ICATI	ON:	REST	ORATIO	N				MOD	IFICATIO	N TIT	LE:				
DESCRIPTION/JUSTIFICATION:																				
Funds will be used to restore the USS Cole for	rom damage	e received i	n the	10/00 te	rrorist	incident	in Yem	en.												
DEVELOPMENT STATUS/MAJOR DEVELOP	MENT MILE	STONES:																		
	FY 200	00 & Prior	FY	2001	FΥ	2002	FY	2003	F	Y 2004	F	Y 2005	F`	Y 2006	F`	Y 2007		<u>TC</u>	TO	TAL
	QTY	\$	QTY		QTY	\$	QTY	\$	QTY	\$		\$	QTY			\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT			1	10.5															1	10.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
LOGISTICS																				
TRAINING																				
SITES EQUIPMENT																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST				10.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0	1	10.5

*Planning for availability in following year.

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CLASSIFICATION: UNCLASSIFIED

	BUDG	ET ITEM J	USTIFICAT	ION SHEET			DATE:					
				P-40			•			FEBRUARY, 2	2002	
APPROPRIATION/B	SUDGET ACTIVIT	ΓΥ		P-1 ITEM NO	MENCLATURE							
OTHER PROCU	REMENT, NA	VY		Surface To	mahawk Su	ıpport Equi	pment (J45/	A)				
BA4/Ordnance S	Support Equi	pment			(PEO	(W))(BLI: 52	25000)					
Program Element for	r Code B Items:			Other Related	Program Elem	nents						
N	ot Applicable	:		0204229N								
	Prior	ID								То		
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total	
QUANTITY		Α										
COST (In Millions)	1386.7		67.9	60.4	53.6	41.3	42.9	46.7	31.4	646.8	2215.4	

Advanced Tomahawk Weapons Control System (ATWCS) (06000) procures Tomahawk Weapon Systems (TWS) hardware and software upgrades resulting from RDT&E initiated improvements, operational requirements, Desert Storm lessons learned, fleet systems reviews, and Land Base Test Site (LBTS) testing. This element funds the procurement of ATWCS which provides state-of-the-art open system architecture, greater graphical display, improved interface, increased mission storage capacity, improved flexibility and responsiveness.

Tactical Tomahawk Weapons Control System (TTWCS) (06001) procures, installs and provides software support and integration of TTWCS, the first in a series of phased replacements of the COTS/GOTS based Weapons Control System (WCS) for the TWS. The primary objective of the TTWCS is the upgrade of the ATWCS hardware as part of the Tactical Tomahawk Program (TTP), including the enhanced performance and efficient execution of new capabilities while maintaining compatibility with existing weapon systems. The TTWCS contract is a turn key procurement that includes cost of installation. The HP 744i Processor Life-of-Type buy requirement for FY 03 is included in this line.

Weapon Control System Product Support (06002) provides for the COTS/GOTS refreshment, engineering changes, software support, testing and infrastructure to maintain compatibility and interoperability with existing and future systems.

Installation of Equipment (07000) funds all Fleet Modernization Program (FMP) installation costs associated with ATWCS.

Theater Mission Planning Center (TMPC) Product Improvements (08000) procures required software improvements. Tomahawk mission planning is highly dependent on mapping, charting and geodesy products from National Imagery and Mapping Agency (NIMA) and imagery from national systems. Transmitting the missions to Tomahawk capable platforms depends entirely on the Navy communications system which is continually improved and updated on a regular basis, many times annually. This funding allows TMPC to retain compatibility with, and exploit the capabilities of these systems. A Float Planning System (APS), a shipboard based version of TMPC, is included in this line.

The FY 02/FY03 program procures ATWCS, TTWCS, TMPC product improvements and associated systems support costs.

P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUN 86 ITEM NO. 105 PAGE NO. 1

UNCLASSIFIED CLASSIFICATION:

	WEAPONS SYSTEM COST AN	ALYSIS			DATE:											
	P-5									FEBRU	ARY, 20	02				
APPRO	PRIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENC	LATURE/S	SUBHEAD							
Other F	Procurement, Navy				Surface	• Tomaha	wk Sup	port Eq	uipment (J45A)						
BA4/O	rdnance Support Equipment				PEO (W	/) BLI 525	000									
			TOTAL COST IN	THOUSA	ANDS OF D	OLLARS										
COST	ELEMENT OF COST	ID Code	Prior Years		FY2001			FY 2002			FY 2003		To Co	omplete	٦	otal
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
06000	Advanced Tomahawk Weapons Control System (ATWCS)		588,488			20,857			12,355			2,206				623,90
06001	Tactical Tomahawk Weapons Control System(TTWCS)*		0	3	1,633	4,900	4	1,633	6,530	5	2,608	13,040	53	55,195	56	79,66
06002	WCS Product Support		166,393			4,337			6,922			7,669		376,354		561,67
07000	Installation of Equipment (Non-FMP)		25,762			0			0			0				25,76
07001	Installation of Equipment (FMP)		37,077			12,982	:		10,572			3,071				63,70
00080	Theater Mission Planning Center(TMPC) Product Improvements		568,941			24,864			24,005			27,628		215,288		860,72
			1,386,661			67,940			60,384			53,614		646,837	56	2,215,43

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P-1 SHOPPING LIST CLASSIFICATION:

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^{*} FY 2003-2005 TTWCS unit cost fluctuations are due to the mix of configurations. TWCS to TTWCS conversions are double the cost of ATWCS to TTWCS conversions. FY 03 unit price increase includes \$7.04M for Life-of-Type buy of HP 744I Processor.

		DRY AND	PLANNING EXHIBIT	(P-5A)		Weapon System		A. DATE FE	BRUARY 2	2002
APPROPRIATION/BUDGET her Procurement, N A4/Ordnance Suppo	avy	ant .			C. P-1 ITEM NOM Surface Tom PEO (W) BLI	ahawk Support Equipn	nent		SUBHEAD J45A	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIO AVAILAI
TWCS 06001/FY 2001	3	1,633	NAVAIR, PAX RIVER	DEC 00	C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA	June 01	APR 03	YES	
TWCS 06001/FY 2002	4	1,633	NAVAIR, PAX RIVER	DEC 00	C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA	DEC 01	Jun 03	YES	
TWCS 06001/FY 2003	5	2,608	NAVAIR, PAX RIVER	N/A	C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA	MAR 03	OCT 03	YES	
REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 105 Classification: UNCLASSIFIED

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CLASSIFICATION: CLASSIFICATION:	UNCLA	SSIFI	ED												ı	FEBR	UAR	Y 2002						
P3A		INDIVID	UAL I	MODIFIC	ATIO	N																		
MODELS OF SYSTEM AFFECTED:	CG/DD/D	DG				-	TYPI	E MODIF	ICAT	ION:	RELI	ABILITY					MOD	IFICATI	ON TI	TLE:		ANCED TO		
DESCRIPTION/JUSTIFICATION:																					WEA	PON CON	TROL SYS	STEM
DESCRIPTION/303TH TEATION.																								
DEVELOPMENT STATUS/MAJOR DEVELO	DPMENT N	MILESTO	NES:				IN P	RODUC	ΓΙΟΝ					_										
	FY 2000 QTY			<u>/ 2001</u> \$		<u>2002</u> \$		<u>/ 2003</u> \$		<u>Y 2004</u> ′\$	<u>FY</u> QTY	2005 \$		<u>/ 2006</u> \$	FY:	2007	QTY	TC f	T <u>C</u> QTY	<u>OTAL</u>				
FINANCIAL PLAN (IN MILLIONS)	QIY		QIY	<u></u>	QIY	Ъ	QIY		QIY	<u> </u>	QIY	a	QIY		QIY	Þ	QIY	Þ	QIY	Ф	_			1
					<u> </u>				 		+										₩			
RDT&E									-		_										igsquare			
PROCUREMENT_																								
INSTALLATION KITS	96	174.7	13	15.3															109	190.0	<u> </u>			
INSTALLATION KITS - UNIT COST		1.8		1.2																		<u> </u>		
INSTALLATION KITS NONRECURRING																						<u> </u>		
EQUIPMENT																						ł		
EQUIPMENT NONRECURRING																					1	í		
ENGINEERING CHANGE ORDERS																						i		
DATA																						í		
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																						í		
OTHER(ENGINEERING SUPPORT)		43.1		5.6		5.6		2.2												56.5		ī		
OTHER(FINAL SOFTWARE BUILD)						6.8														6.8	\vdash			
OTHER																					\vdash			
INTERIM CONTRACTOR SUPPORT									1	†	1										\vdash			
INSTALL COST	30	30.0	23	13.0	21	10.6	6	3.1		†	1 -				t t				115	56.7	$\vdash \vdash$			
TOTAL PROCLIDEMENT	96			33.0					+	†	1		 	 	 					210.0	$\vdash \vdash$	$\overline{}$		†

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^{*} FY 1999 funds were used to install six ATWCS kits on ships which were previously installed at land based test labs.

CLASSIFICATION: UNC	CLAS	SSIFIED)													FI	EBRUAF	RY 200	2	
P3A (Continued)						INDIVIDUA	L MO	DIFICATIO	ON (Co	ontinued)										
MODELS OF SYSTEMS A	FFEC	TED: CG/E	DD/DDG					_ MO	DIFIC	ATION TITLE	:	ADVANC	ED TC	MAHAW	< WE	APON C	ONTROL	SYSTEN	M (ATWC	S)
INSTALLATION INFORMA	TION:																			
METHOD OF IMPLEMENT	TATIO	FMP/ALTE	RATION	INSTALLA	ATION	ITEAM														
ADMINISTRATIVE LEADT	IME:	6	Months				_	PRODUC	CTION	LEADTIME:			VAR	IOUS						
CONTRACT DATES:	FY 2	2000:	Mar-00		_			FY 2001:		Mar-01				FY	2002:	N/A	A			
DELIVERY DATE:	FY 2	2000:	VARIOU	S				FY 2001:		VARIOUS				FY	2002:	N/A	4		- -	
										(\$ in Millions)										
Cost:	Р	rior Years	FY	′2001		FY 2002	F	Y 2003		FY 2004	F	Y 2005	F`	Y 2006	F١	Y 2007	To Comp	olete	Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty S	Б
PRIOR YEARS	65	30.0																	65 28	.6
FY 1999 EQUIPMENT			23	13.0															23 13	.0
FY 2000 EQUIPMENT					14	7.1													14 7.	1
FY 2001 EQUIPMENT					7	3.5	6	3.1											13 6.6	3
FY 2002 EQUIPMENT																				
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
TO COMPLETE																			115	
INSTALLATION SCHEE	OULE:																			
FY2000		FY 200	<u>1</u>	FY	2002		FY 2	<u>2003</u>		FY 2004		FY	2005		FY 2	<u> 2006</u>	<u> </u>	Y 2007	<u>T(</u>	
&PRIOF	1	2 3	4	1 2	3	4 1	2	3 4	1	2 3	4	1 2	3	4 1	2	3 4		2 3	4	TOTAL
IN 82	4	4 2	4	3 5	5	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0 0	109
OUT 65	6	6 6	5	6 5	6	4 3	3	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0 0	115
* FY 199	9 func	ds were used	d to install	six ATWC	S kits	on ships wh	nich w	ere previo	usly in	stalled at land	base	d test labs								
																				P-3A

APPROPRIATION/BUDGET AC				E, P-2	ı													DATI	=			⊢eb	rua	ry, 2	2002	2			
OTHER PROCUREMENT		/		,									Wea	apon	Sys	tem			ITE		OME								
Production Rate											Procurement Leadtimes																		
	Manufacturer's									ALT Prior ALT After			Initial Reorder				er					Un	it of						
Item	1	Name and Location			M	SR	ECON		MAX		to Oct 1		Oct 1		Mfg PLT		LT	Mfg PLT		_T	Total		Measure						
TTWCS FY 01	LOCK	HEED I	MARTIN	N, VF, F	PA	5	5 /yr			20					8		22					30			EACH				
TWCS FY 01 LOCKHEED MARTIN, VF, PA TWCS FY 02 LOCKHEED MARTIN, VF, PA						5 /yr			20				3		18						21			EACH					
TTWCS FY 03	LOCK	HEED I	MARTIN	N. VF. 1	PA	5 /yr				20				6		7									EACH				
							,																						
					FISCAL YEAR				R 2001				FISCAL Y				'EAR 2002												
ITEM / MANUFACTURER	F	S	Q	D	В		2000					(CALE	NDAR	YEAR	200	1						CAI	LEND	AR YE	AR 2	002		
	Υ	V	T Y	E L	A L	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S
			l '	-	-	C	0 V	E C	A N	E B	A R	P R	A Y	U	U L	U G	E P	C	0 V	E	A N	E B	A R	P R	A Y	U	U L	U G	E
ITWCS	01		3	0	3	H	-	_		-	- 10	- 1	_	A	-	_	_	÷		Ü	- 11		- 11	- '			+-	Ü	<u> </u>
TTWCS	02		4	0	4	.								^						Α				l			1-		
11100	02		_																	- '							1		
	1																										₽		
																											1		
	1									EISC	CAL Y	EVD	2003									EISC	AL V	EAR :	2004				
ITEM / MANUFACTURER	F	s	Q	D	В	B 2002						CALENDAR YEAR 2003											LEND.		\D 2	004			
	Y	V	T	E	A	0		D		F				IDAK					N.	D	-	F		г –			1		_
		Ċ	Y	Ĺ	Ĺ	c	N O	E	J A	E	M A	A P	M A	IJ	U	A U	S	0	N O	E	J A	E	M A	A P	M A	U	J	A U	S
						Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р
TTWCS	01		3	0	3							1	1	1															
TTWCS	02		4	0	4									1	1	1	1												
ITWCS	03		5	0	5						Α							1	1	1	1	1					!		
	-																										1		
	1					1																					1		
	1					l																					t		
			1	1	1	1													1			1	1	1	1	1		1	1

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST UNCLASSIFIED

311 / 244 Production Schedule

		BUDG	ET ITEM JU	JSTIFICATIO	N SHEET				DATE:	FEBRUARY 2	002	
				P-40								
APPROPRIATION/	BUDGET ACTIVITY	/					P-1 ITEM NOI	MENCLATURE				
OTHER PROCL	JREMENT, NAV	Υ					Submarine	Tomahawk	Support Ed	quipment (J4	5B)	
BA4/Ordnance	Support Equip	ment							(PEO(W))(B	BLI: 525500)		
Program Element fo	or Code B Items:						Other Related	Program Elem	ents			
N/A							NONE			То		
	Prior	ID								То		
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total	
QUANTITY	121.8	Α	2.8	3.0	5.2	8.8	28.8	28.7	28.5	116.0	343.7	
COST												

<u>Submarine-Advanced Tomahawk Weapon Control System</u> (Sub-ATWCS) (02000)provides open system architecture, extensive hardware (TAC-X) processors, Common Display Console Unit, racks, cables, connectors, etc., and software commonality with surface systems. Sub-ATWCS installation on 688 class submarines is a prerequisite for installation on the VIRGINIA class submarine.

<u>Submarine-Tactical</u> <u>Tomahawk Weapon Control</u> <u>System (Sub-TTWCS)</u> (02001) provides all capabilities associated with Submarine ATWCS and accommodates the Tactical TOMAHAWK variant. TTWCS hardware for submarines will support the following functions: Receipt of Over the Horizon (OTH) tracking data external to TTWCS; Engagement Planning; Inventory Management of missiles; Strike Planning; Interface with the Combat Control System to transfer engagement plans, TOMAHAWK Mission data, and flight software.

Weapons Control System Product Support (WCS Product Support) (02002) provides for COTS/GOTS refreshment, engineering changes, software support, testing and infrastructure to maintain compatibility and interoperability with existing and future systems. The TCOMMS PcMDS (TLAM Core Responsibilities) requirement was included in this line during PR 03.

The FY 02/03 program procures TTWCS hardware for submarines and associated system support costs.

CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM COST ANAI	YSIS					Weapon Sys	tem						DATE:		
	P-5							1						FEBRUARY	2002	
	PRIATION/BUDGET ACTIVITY						ID Code		IOMENCLAT				5D)			
	Procurement, Navy								ne Tomah		port Equi	pment (J4	5B)			
BA4/O	dnance Support Equipment	1						(PEO(W)	(BLI: 525	500)						
			TOTAL COST	T IN THOUS	SANDS OF I	DOLLARS										
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2001			FY 2002			FY 2003		To C	omplete	To	tal
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
02000	Submarine-ATWCS Production Engineering		120,220 1,391	3	727	2,180									14	122,512 1,391
02001	Submarine-TTWCS			1	500	500	4	475	1,900	7	380	2,660	43	18,917	65	23,977
02002	WCS Product Support					143			1,119			2,602		131,918		135,782
	Conversion of 4 SSBN to SSGN															
	•		121,721			2,823			3,019			5,262		150,835	79	283,662

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CLASSIFICATION: UNC

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BUDGET PROCUREM	ENT HIST	ORY ANI	PLANNING EXHIE	BIT (P-5A)		Weapon System		A. DATE	ARY, 2002	
B. APPROPRIATION/BUDGET Other Procurement, N BA4/Ordnance Suppo	lavy	ent			Submarin	l IOMENCLATURE e Tomahawk Support E BLI 525500	quipmer		SUBHEAD J45B	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
TTWCS 02001/FY 2001 TTWCS 02001/FY 2002	1 4	500 475	NAVAIR, PAX RIVER NAVAIR, PAX RIVER	DEC 00	C/FPI C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA LOCKHEED MARTIN	June 01 DEC 01	MAR 03 JUN 03	YES YES	
TTWCS 02001/FY 2003	7	380	NAVAIR, PAX RIVER	N/A	C/FPI	VALLEY FORGE, PA LOCKHEED MARTIN VALLEY FORGE, PA	MAR 03	OCT 03	YES	
D. REMARKS	1		<u> </u>		1		1	I		

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UNCLASSIFIED

		ı	BUDGET ITEM JUSTIFICA P-40	ATION SHEE	Т			DATE:	Februa	ary 2002	
APPROPRIATION/BI	UDGET ACTIVIT	Υ	1 40			P-1 ITEM NOM	IENCLATURE		1 051 40	y 2002	
OTHER PROCUE	REMENT, NA	VY/BA-4	Ordnance Support Equi	pment		VERTICAL I	LAUNCH SY	STEM BLI 520	600		
Program Element for	Code B Items:					Other Related N/A	Program Eleme	nts			
	Prior Years	ID Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY			N/A	N/A	N/A	N/A	N/A	N/A	N/A		
COST (In Millions)		Α	\$6.6	\$6.8	\$6.5	\$6.9	\$9.4	\$9.5	\$7.4		\$53.1
SPARES COST (In Millions)			\$0.8	\$0.6	\$0.8	\$0.6	\$0.6	\$0.9	\$0.9		\$5.4

SUBMARINES

The SSN-688 Class Vertical Launch System (VLS) is a weapons system which provides the SSN-688 Class submarines with the capability to carry, status, preset, and launch up to twelve TOMAHAWK cruise missiles from vertical tubes located in the forward non-pressure hull area. This weapons system is being added to all SSN-688 Class submarines starting with SSN-719 in FY 86 with out degrading any existing SSN-688 Class weapons system capabilities or submarine operational characteristics. The VLS launches TOMAHAWK conventional land attack cruise missiles. The TOMAHAWK cruise missile was modified to allow operation in a vertical orientation. VLS was procured and installed under the SCN appropriation. VLS support, test, and handling equipment are provided by this OPN P-1 line item.

The AUR Simulator is a test and training device that is loaded into a missile tube to simulate an operational Encapsulated TOMAHAWK Vertical All Up Round (AUR) allowing the VLS to be exercised through the launch phase without actually launching a missile. The AUR Simulator consists of an AUR Electronic Simulator enclosed in a Volumetric Shape. The AUR Electronic Simulator (AURES) simulates the AUR operations either while installed in the Volumetric Shape or in the stand-alone mode via electrical umbilical connection. The Volumetric Shape simulates the weight and shape of an operational AUR, provides a watertight, pressure-proof enclosure for the AURES, and interfaces with the missile tube in a manner similar to an operational AUR so that no damage to the tube will occur during simulation. The missile tube bore gauge is used to verify the proper missile tube clear bore to ensure compatibility with the TOMAHAWK AUR. The AUR loader is a funnel-shaped device which mounts to the missile tube muzzle face. It acts as a guide for the AUR and provides the mechanism to push the AUR down during loading and pull the AUR out of the missile tube during unloading. The Missile Tube Control Panel (MTCP) (SSN 719-725, 750) and the Tube Control Panel (TCP) (SSN 751-773) display...he status of the missile tubes, controls the operation of the missile tube hatches, and displays the status of various subsystems.

Near-term (FY98-01) changes to the PR-99 budget due to emergent need include: Internal Load Bank thermal protection kit due to Submarine Tomahawk Action Board (STAB) requirement to increase MK 101 operating time. Additional MK 101s due to STAB requirement. Cancellation of the MK 101 upgrade to support Tomahawk Block Improvement Program and commencement of the MK 101 upgrade (Mod 4) to support Tactical Tomahawk. Face seals to provide protection from moisture during cable connection. Reduction in ships needing ShipAlt 3989K (Install Hull Access Plates). Improved test pressure stations modification to support Performance Monitoring Team (PMT) testing. Fairing linkage upgrade modification.

Long-term (FY02-03) changes to the PR-99 budget and new FY04-05 items include: Improved AURVS cable. Improved AURVS Junction Box. Ballast Can covers due to removal problems with existing plug. Improved Ballast Can pads. Platform tent. Commencement of a Mod 5 MK 101 upgrade. Special test equipment. Hall switch upgrade. Improved Fairing Lock Cylinder modification. Hydraulic Actuator pipe flange modification.

P-1 SHOPPING LIST

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CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

UNCLASSIFIED

		BUD	GET ITEM JU	STIFICATION	SHEET			DATE:			
				P-40					Februar	y 2002	
APPROPRIATION/BU	IDGET ACTIVIT	ГҮ				P-1 ITEM NOME	ENCLATURE				
OTHER PROCUR	EMENT, NA	VY BA-4				VERTICAL LA	UNCH SYSTE	M BLI# 5260			
Program Element for 0	Code B Items:					Other Related P	rogram Elements				
	Prior	ID								То	
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY			N/A	N/A	N/A	N/A	N/A	N/A	N/A		
COST											
(In Millions)		Α	\$6.7	\$6.9	\$6.5	\$6.9	\$9.4	\$9.5	\$7.4		\$53.3
SPARES COST											
(In Millions)			\$0.8	\$0.6	\$0.8	\$0.6	\$0.6	\$0.9	\$0.9		

SURFACE

The MK-41 Vertical Launching System (VLS) is a surface combatant missile launching system, designed to store, select and launch Various STANDARD Missile configurations, TOMAHAWK, Tactical TOMAHAWK, EVOLVED SEASPARROW (ESSM) and Vertical Launch ASROC (VLA) missiles. The MK-41 VLS significantly improves missile capacity, flexibility, multi-mission capability, reaction time and rate of fire and is designed to be adaptable to present and future weapon systems. Current configurations are: two 61 cell launchers for 22 TICONDEROGA (CG 47) Class Cruisers beginning with CG-52; one 61 cell launcher for 19* SPRUANCE (DD 963) Class Destroyers; and one 64 cell and one 32 cell launcher for 58 ARLEIGH BURKE (DDG 51) Class Destroyers. Current DDG 51 FLT IIA is a 64 cell launcher and one 32 cell launcher which consists of twelve VLS modules with the capacity for 96 canisters.

The OPN requirements are to procure ORDALT kits and fund government field activity support for ORDALT installation planning, provide sustaining engineering support to MK-41 VLS ships in the fleet, and procure test equipment/special tool replacement in support of ship ROH/SRA testing. The MK-41 VLS program has requirements to: Procure ORDALTs for SM-2 BLK IV and SM-3 for DDG-51 and CG-47 classes in support of Navy Theater Ballistic Missile Defense (TBMD) program; Conduct engineering investigations of 8 to 12 inadvertent deluges and 4 to 6 missile duds per year in order to minimize future material damage; Collect, investigate, and prioritize computer program trouble reports; Investigate discrepancies in, update, and correct shipboard Allowance Equipment Lists (AELs), Consolidated Onboard Ship Allowance Lists (COSALs), and configuration lists; Provide ORDALT production engineering support.

The increase in FY05-07 are for the procurement of Safety Ordnance Alterations.

* 5 SPRUANCE (DD-963) Class Ships are being decommissioned through FY02 bringing the total to 19 DD-963s.

P-1 SHOPPING LIST

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CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM COST ANAL P-5	YSIS			Weapon Sys	tem							DATE: Februa	ry 2002
Other P	RIATION/BUDGET ACTIVITY Procurement, Navy				ID Code	P-1 ITEM N	IOMENCLATUI	RE/SUBHEAD						
BA-4 O	rdnance Support Equipment	,				Vertical I	Launch Sys	tems BLI:	526000/05	SBHD: 84	5A			
			TOTAL COST	IN THOUSANDS OF DOI	LLARS									
COST	ELEMENT OF COST	ID Code	Prior Years				FY 2001			FY 2002			FY 2003	
CODE		Code	Total Cost			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINES N-77													
5A101	AUR ELECTRONIC SIMULATOR	Α												
	Shape/skid Assembly								9	253	2,277			
	Internal Load Bank Thermal Protection					23	1	23						
	Improved AURVS Cable											1	70	70
	Improved AURVS Junction Box											1	30	30
	Improved Ballast Can Covers											1	40	40
	Improved Ballast Can Pads											1	40	40
	Improved Platform Tent											1	55	55
5A102	AUR ELECTRONIC SIMULATOR	Α												
	Tactical Tomahawk Kit Mod 4					3	135	405	25	17	425	70	18	1,260
5A107	LOADING SUPPORT EQUIPMENT	Α												
	Miscellaneous support equipment							250			36			142
	Special Test Equipment													360
5A116	FACILITY HARDWARE	A						109			13			115
	OUDTOTAL (OUDMADINES :: ==)										0.77			
	SUBTOTAL (SUBMARINES N-77)		0			D 4 0110	DDING LIS	787	<u> </u>		2,751	CI ASSIEI		2,112

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	WEAPONS SYSTEM COST ANALYS	SIS				Weapon Sy	stem							DATE:	
	P-5													Februai	y 2002
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATUR	RE/SUBHEAD						
	rocurement, Navy														
BA-4 Or	dnance Support Equipment		1				Vertical L	aunch Sys	tems BLI:	526000/05	SBHD: 84	5A			
			TOTAL COS	T IN THOUSA	NDS OF DOL	LARS									
COST	ELEMENT OF COST	ID	Prior					FY 2001			FY 2002			FY 2003	
CODE		Code	Years Total Cost				Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
			10101 0031				Quantity	OTIIL OOSL	10101 0031	Quantity	01111 0031	Total Cost	Quantity	Offic Oost	Total Oost
5A118	SHIPALT MATERIAL														
	TCP Maintenance Module						7	76	532	2	85	170	6	89	534
	TCP Follow-on Upgrade						1	1,161	1,161	2	200	400	7	210	1,470
	4143 KP MFD 3/9 Handwheel							,	,	7	0.5	3.5	10	0.6	6
	Fairing Linkage Upgrade										0.0	240	2	75	150
	Fairing Linkage Restraint Upgrade											387	2	240	480
										_	5.40		2	240	400
	Hydraulics Block Upgrade									1	540	540			
5A6IN	NON-FMP INSTALLATIONS								64						
5AINS	FMP INSTALLATIONS								411			1222.5			1,392
	SUBTOTAL (SUBMARINES N-77)		0						2,955			5,715			6,144

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	WEAPONS SYSTEM COST ANALY	/SIS			V	/eapon Syste	em							DATE:	
	P-5						1							Februa	ry 2002
	RIATION/BUDGET ACTIVITY 'rocurement, Navy					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAD)					
	rdnance Support Equipment						Vertical I	_aunch Sys	tems BII	526000/0	5 SBHD·8	45A			
B/(+ 0	Landing Support Equipment		TOTAL COS	T IN THOUS	SANDS OF DO	LLARS	Vertiouri	-uunon oye	tomo BEI.	0200070	0 05115.0				
COST	ELEMENT OF COST	ın		Г	E)/ 0004		T	FY 2005		T	FY 2006			FY 2007	
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2004			FY 2005			FY 2006			FY 2007	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINES N-77														
5A101	AUR ELECTRONIC SIMULATOR	Α													
	Shape/skid Assembly			6	257	1,542									
	Additional skids						46	26	1,196						
	Internal Load Bank Thermal Protection			9	10	90	27	10	270	22	11	242	29	12	348
	Improved AURVS Cable			9	7	63	27	7	189	22	8	176	29	9	261
	Improved AURVS Junction Box			22	4	88	57	4	228	51	5	255	55	6	330
	Improved Ballast Can Covers			22	3	66	57	3	171	51	4	204	55	5	275
	Improved Ballast Can Pads			3	6	18	7	6	42	7	7	49	9	8	72
	Improved Platform Tent														
5A102	AUR ELECTRONIC SIMULATOR	Α													
	Tactical Tomahawk Kit Mod 4			49	19	931	28	19	532						
	Mod 5 TBD						1	608	608	2	248	496	22	28	616
5A107	LOADING SUPPORT EQUIPMENT	Α													
	Miscellaneous support equipment					94			153			204			133
5A116	FACILITY HARDWARE	А				82			117			166			107
	SUBTOTAL (SUBMARINES N-77)	1	0			2,974			3,506			1,792			2,142
	2446 ILIN 86			I	I	_,_,	D 4 CLIC	PPING LIS		1		.,. 32	CL ASSIEL	0.471011	

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UNCLASSIFIED CLASSIFICATION:

	WEAPONS SYSTEM COST ANALY	'SIS				Weapon System	em			•		•		DATE:	•
	P-5													Februai	ry 2002
	RIATION/BUDGET ACTIVITY		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		ID Code	P-1 ITEM N	OMENCLATUR	RE/SUBHEAD						
	rocurement, Navy														
BA-4 Or	dnance Support Equipment						Vertical L	aunch Syst	tems BLI:	526000/05	SBHD: 84	5A			
			TOTAL COS	T IN THOUS	ANDS OF DOL	LARS									
COST	ELEMENT OF COST	ID	Prior		FY 2004			FY 2005			FY 2006			FY 2007	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
			Total Goot	Quartity	O	10101 0001	Quantity	01	Total Cool	Quantity	01 0001	70101 0001	Quartity	O1111 0001	Total Goot
5A118	SHIPALT MATERIAL														
	TCP Maintenance Module			5	91.0	455									
	TCP Follow-on Upgrade			2	215.0	430	2	220	440	7	230	1610	2	232	464
	4143KP MFD 3/9 Handwheel			7	0.6	4.2									
	Fairing Linkage Upgrade			1	77.0	77	2	77	154	2	78	156	4	79	316
	Fairing Linkage Restraint Upgrade			1	244.0	244	2	245	490	2	246	492	4	248	992
	Hydraulics Block Upgrade			1	205	205	_	210	100	1	207	207	2	209	418
	Hall Switch			'	200	203	1	134	134	5	69	345	6	71	426
	Hall Switch						'	134	134	Э	69	345	0	/1	426
5A6IN	NON-FMP INSTALLATIONS											203			205
SAGIN	NON-FMP INSTALLATIONS											203			205
5AINS	FMP INSTALLATIONS					1,903			1,724			1751			1,749
i															
ı															
ı															
	SUBTOTAL (SUBMARINES N-77)	1				6,288			6,448			6,556			6,712
	2446, JUN 86		1	1	<u> </u>	U,200	P-1 SHO	PPING LIS				0,500	CLASSIFIC	CATION:	_

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UNCLASSIFIED

UNCLASSIFIED

	WEAPONS SYSTEM (P-5	COST AN	IALYSIS			Weapon Sy	stem							DATE: JANUAI	RY 2002
	RIATION/BUDGET ACTIVITY rocurement, Navy					ID Code		OMENCLATU VERTICAL			SYSTEM/	A45A BLI#	5260		
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS									
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2001			FY 2002			FY 2003	
OODL		Oode	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SURFACE N76														
5A003	VLS ORDALTS								1,118			359			196
5A830	PRODUCTION ENGINEERING								1,562			225			213
5A870	SPEC TOOLING/TEST EQUIP								0			0			O
5A900	CONSULTING SERVICES								26			0			О
5A5IN	FMP INSTALLATION								1,060			548			О
	SUBTOTAL (SURFACE N76)								3,766			1,132			409
	TOTAL		0						3,766			1,132			409
DD FORM	2446, JUN 86	P-1 SH	OPPING LIST	-								CLASSIFICA	TION:		

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UNCLASSIFIED

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	WEAPONS S	YSTEM COST P-5	ANALYSIS	6			Weapon Sy	stem							DATE:	ebruary 2	002
	PRIATION/BUDGET ACTIVITY Procurement, Navy	. 0					ID Code	P-1 ITEM		ATURE/SUBF		CE SYST	EM/A45A	BLI# 52		<i>5</i> 0. uu.y <u>-</u>	
COST	ELEMENT OF COST		FY 2004			FY 2005			FY 2006			FY 2007		То	Complete		Total
CODE		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
	SURFACE N76																
5A003	VLS ORDALTS			333			2,747			2,742			473				10,74
5A830	PRODUCTION ENGINEERING			217			218			223			230				4,28
5A870	SPEC TOOLING/TEST EQUIP			0			0			0			0				
5A900	CONSULTING SERVICES			0			0			0			0				8
5A5IN	FMP INSTALLATION			133			52			53			54				3,55
	SUBTOTAL (SURFACE N76)			683			3,017			3,018			757				18,66
	TOTAL M 2446, JUN 86		P-1 SHOPF	6,980			9,437			9,567			7,441 CLASSIFICA				18,66

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UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND	PLANNING	EXHIBIT (F	P-5A)			Weapon System		A. DATE		
									February 20	02
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOM				SUBHEAD	
Other Procurement, Navy BA-4						ASS VERTICAL LAUNC		EM		
ORDNANCE SUPPORT EQUIPMEN	T					R ELECTRONIC SIMULA	TOR		845A	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SUBMARINE		(000)								
FY2001										
Internal Load Bank Thermal Protection	23	\$1	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
FY2002										
Shape/skid Assembly	9	\$253	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
FY2003										
Improved AURVS Cable	1	\$70	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
Improved AURVS Junction Box	1	\$30	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
Improved Ballast Can Covers	1	\$40	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
Improved Ballast Can Pads	1	\$40	NUWC		COMPET	COMPETITIVE/NUWC		4/03	YES	N/A
Improved Platform Tent	1	\$40	NUWC		COMPET	COMPETITIVE/NUWC		4/03	YES	N/A
improvod i ladolili rolik	·	Ψισ	110110		001111 21		11/02	1,00	1 . 20	1 17/1

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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UNCLASSIFIED

BUDGET PROCUREMENT HI	STORY AND F	PLANNING	EXHIBIT (P-5A)			Weapon System		A. DATE		
									February 20	02
B. APPROPRIATION/BUDGET ACTIVITY	_				C. P-1 ITEM NON				SUBHEAD	
Other Procurement, Navy BA						LASS VERTICAL LAUN	CH SYS	TEM		
ORDNANCE SUPPORT I	EQUIPMENT					IRES MK101			845A	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SUBMARINE		(000)								
FY2001										
Tactical Tomahawk Kit	3	\$135	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
FY2002										
Tactical Tomahawk Kit	25	\$16	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
FY2003										
Tactical Tomahawk Kit	70	\$18	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
				l				<u> </u>	<u> </u>	l

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UNCLASSIFIED

BUDGET PROCUREMENT H	ISTORY A	ND PLANN	ING EXHIBIT (P-5/	A)		Weapon System		A. DATE		_
					<u> </u>				February 200	2
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NON		0./07		SUBHEAD	
Other Procurement, Navy B						LASS VERTICAL LAUNC	HSYS	EM		
ORDNANCE SUPPORT	EQUIPM	ENT				IPALT MATERIAL			845A	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
SUBMARINE FY2001										
TCP Maint Module	7	\$76	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
TCP Follow-on Upgrade	1	\$1,191	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
FY2002										
TCP Maint Module	2	\$85	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
TCP Follow-on Upgrade	2	\$200	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
4143KP MFD 3/9 Handwhe	7	\$0.5	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
Fairing Linkage Upgrade		\$240	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
Fairing Linkage Restraint U	pgrade	\$387	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
Hydraulics Block Upgrade	1	\$540	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
FY2003										
TCP Maint Module	6	\$89	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
TCP Follow-on Upgrade	7	\$210	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
4143KP MFD 3/9 Handwhe	10	\$0.6	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
Fairing Linkage Upgrade	2	\$75	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
Fairing Linkage Restraint U	2	\$240	NUWC		COMPET	COMPETITIVE/NUWC	11/02	4/03	YES	N/A
		<u> </u>		<u> </u>	l			l	1	

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CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	L MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	SSN	l 751-773			TYP	E MODIF	FICAT	ION:		KP SHI	PALT				MOE	IFICATI	ION TI	TLE:		IAINTENAI		
	PLUS	S 2 SHORE S	SITES		_							_								JLE SHIPA	LT	
DESCRIPTION/JUSTIFICATION:																		_	(5A118	5)		
THIS MOD FACILITATES MAINTENANC																						
DEVELOPMENT STATUS/MAJOR DEVE	LOPME	NT MILESTO	ONES:									-										
	FY 1	1999 & Prior	F۱	/ 2000	F۱	/ 2001	F۱	/ 2002	FY	2003	F۱	Y 2004	F`	Y 2005	F١	2006	F١	2007		<u>TC</u>	TO.	TAL
	QTY		QTY			\$	QTY			\$		\$		\$		\$		\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	1	0.18	2	0.15	7	0.53	2	0.17	6	0.53	5	0.46									23	2.02
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						

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0.54

0.64

1.10

0.46

0.46

0.47

0.47

2.53

CLASSIFICATION: UNCLASSIFIED

0.42

0.59

OTHER OTHER

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

0.18

0.15

CLASSIFICATION: UNC	CLAS	SIFIED																								
P3A (Continued)				INDIVIDU	AL M	ODIFICATIO	N (Cor	ntinued)																		
MODELS OF SYSTEMS	AFF	ECTED:		751-773 2 SHORE S	TES	MOD	OIFICA	TION TITLE:			TCP N	TAIN	TENAN	NCE M	ODUL	_E SHI	PALT	(5A118)					-			
INSTALLATION INFORM METHOD OF IMPLEME			AIT	_ 0	0																					
ADMINISTRATIVE LEAR			6	Mon	hs	PRODUCT	ION LI	EADTIME:			8	Mor	nths		_											
CONTRACT DATES:		2000:	4/99			FY 2001:		4/00						FY 20				4/01								
DELIVERY DATE:	FY	2000:	2/00	_		FY 2001:		2/01						FY 20	002:			2/02		_						
2			_		1						in Millio															
Cost:	Qty	or Years \$	Qty	Y 2000 \$	Qty	FY 2001	Qty	FY 2002 \$	Qty	FY 20	03 \$	Qty	FY 20	04 \$	Qty	FY 200)5 B	Qty	Y 2006 \$	Qtv	FY 20	07 \$	Qty	mplete \$	Qty	Total \$
	Qty	Φ	Qiy	Ψ	Qty	Φ	Qiy	Φ	Qty		φ	Qty		Ψ	Qty	,	Þ	Qty	Φ	Qi	/	Ψ	Qty	Ψ	Qty	Ψ
PRIOR YEARS							1	0.11																	1	0.11
FY 2000 EQUIPMENT							2	0.21																	2	0.21
FY 2001 EQUIPMENT							1	0.11	5		0.54	1		0.1											7	0.75
FY 2002 EQUIPMENT												2		0.21											2	0.21
FY 2003 EQUIPMENT												3		0.32	3		0.35								6	0.67
FY 2004 EQUIPMENT															1		0.12	4	0.4	47					5	0.58
FY 2005 EQUIPMENT																									0	0.00
FY 2006 EQUIPMENT																										
FY 2007 EQUIPMENT																										
TO COMPLETE																										
INSTALLATION SCH	EDUL	.E:																								
FY 2000		FY 2	<u>001</u>		FY	2002		FY 2003			FY 2	004			FY	<u> 2005</u>			FY 2006			FY 2	2007		<u>TC</u>	
& Prior	4	1 2	3	4 1		3 4	1	2 3	4	1	2	3	4	1	2	3	4	1	2 3			2	3	4		TOTAL
In 0		0 0	0	0 2	2		2	2 1	0	3	3	0	0	2	2	0	0	2	2 0			0	0	0	0	23
Out 0	I L	0 0	0	0 0	2	2 0	0	2 2	1	0	3	3	0	0	2	2	0	0	2 2	0	0	0	0	0	0	23
																						P-3A				
						ľ	TEM	107	PA	GE 10									CLA	SSIFI	CATIC			SSIFIED		

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	I MO	DIEICAT	TION																	
P3A		וטטועוטטו	AL IVIO	DIFICA	ION																	
MODELS OF SYSTEM AFFECTED:	SSN	l 751-773			TYP	E MODI	FICAT	ION:		KP SHII	PALT				MOE	DIFICATI	ON TI	TLE:	TCP F	OLLOW-O	N UPGRADI	E
	PLUS	S 2 SHORE S	SITES									_							(5A11	8)		
DESCRIPTION/JUSTIFICATION:																						
MOD WILL ACCOMPLISH SOME OR ALL ACCOMPLISHED 6 OF THE RECOMMEN	-		MEND	ATIONS	IN A	1992 SS	SN 688	CLASS	PLANI	NING YA	KD K	EPORT	IHAI	WEREN	IOT A	CCOMP	LISHE	ED VIA S	SHIPAL	1 3939KP,	WHICH	
ACCOMMENTAL RECOMMENT	IDATIC	J140.																				
DEVELOPMENT OTATIONA IOD DEVELO	20145	NIT MILL FOT	ONEO																			
DEVELOPMENT STATUS/MAJOR DEVELO	JPIVIEI	NI MILESI	JNE5:									_										
	FY 1	1999 & Prior	F	2000	F۱	/ 2001	F۱	<u> 2002</u>	FY	2003	F۱	Y 2004	F`	Y 2005	F۱	Y 2006	FΥ	2007		<u>TC</u>	TO.	TAL
	QTY	′ \$	QTY	\$	QTY	\$	QTY		QTY	\$	QTY		QTY	\$	QTY	\$		\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
																					 	
<u>RDT&E</u>							-														-	
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT					1	1.16	2	0.40	7	1.47	2	0.43	2	0.44	7	1.61	2	0.46			23	5.98
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						

0.30

1.77

0.46

0.89

0.65

1.09

0.66

2.27

0.66

1.13

0.30

0.70

0.00

1.16

OTHER OTHER

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

3.89

9.87

CLASSIFICATION: UNC	LAS	SIFIED																									
P3A (Continued)				IND	IVIDU	AL M	ODIFICA	TION	(Co	ontinued)																	
MODELS OF SYSTEMS	AFF	ECTED:	SSN			TES	M	ODIF	ICA	TION TITLE	:		TCP	FOLL	OW-	ON UP	GRAE	DE (5A118)					_				
INSTALLATION INFORM METHOD OF IMPLEMEN	TAT	ION:	AIT			_																					
ADMINISTRATIVE LEAD			3	Mon	iths	_			N LI	EADTIME:			12	Mor	nths	EV 00	200										
CONTRACT DATES: DELIVERY DATE:		2000: 2000:		_			FY 2001 FY 2001									FY 20					-						
DELIVERT DATE.	ГТ	2000.		_			F1 2001			-						F1 20	JUZ.	-			_						
													\$ in Mil														
Cost:		or Years		Y 200			FY 2001			Y 2002		FY 20			FY 20			FY 2005		Y 2006		Y 2007		Complet			Total
	Qty	\$	Qty	-	\$	Qty	\$	(Qty	\$	Qty		\$	Qty		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$
PRIOR YEARS																											
FY 2000 EQUIPMENT																											
FY 2001 EQUIPMENT									1	0.30																1	0.30
FY 2002 EQUIPMENT											2		0.30													2	0.30
FY 2003 EQUIPMENT														3		0.46	4	0.65								7	1.11
FY 2004 EQUIPMENT																			2	0.33						2	0.33
FY 2005 EQUIPMENT																			2	0.33						2	0.33
FY 2006 EQUIPMENT																					4	0.6	6 3	3	0.51	7	1.17
FY 2007 EQUIPMENT																							2	2	0.34	2	0.34
TO COMPLETE																										0	0
INSTALLATION SCHE	DUL	.E:																									
FY 2000		FY:	<u> 2001</u>			FY	2002			FY 2003			<u>FY 2</u>	2004			FY	2005		FY 2006		FY	2007			<u>TC</u>	
& Prior		1 2	3	4	1	2	3	4	1	2 3	4	1	2	3	4	1	_2	3 4	1	2 3	4	1 2	3	4			TOTAL
In 0		0 0	0	0	1	0	0	0	1	1 0	0	1	1	1	0	2	1	1 0	2	2 0	0	2 2	0	0		5	23
Out 0		0 0	0	0	0	1	0)	0	1 1	0	0	1	1	1	0	2	1 1	0	2 2	0	0 2	2	0		5	23
																						P-3.	A				
								ITE	М	107	PA	GE 12								CLAS	SIFIC	CATION: U	NCLA	SSIFIE	D		

РЗА		INDIVIDUA	L MO	DIFICAT	ΓΙΟΝ																	
MODELS OF SYSTEM AFFECTED:	SSN	l 750-773			TYP	E MODIF	FICAT	ION:		KP SHI	PALT	_			MOE	IFICATI	ON T	ITLE:			Handwhee	el
DESCRIPTION/JUSTIFICATION:					_							_							(5A11	8)		
This modification corrects a deficiency in the	e MF	O 3/9 handwl	neel w	hich if ir	nadver	tently bu	mped	could di	srupt tl	ne launch	ı sequ	ience.										
L DEVELOPMENT STATUS/MAJOR DEVELO	DPME	NT MILESTO	NES:																			
	EV 1	1999 & Prior		/ 2000		Y 2001	E\	Y 2002	Ε\	′ 2003	E'	- V 2004		Y 2005	Ε\	/ 2006		<u>/ 2007</u>		TC	TO	TAL
	QTY			\$		' \$	QTY	' \$		\$	QTY	<u>Y 2004</u> ′\$	QTY	\$	QTY	<u>2006</u> \$		\$	QTY	<u>TC</u> \$	QTY	\$ \$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT							7	0.004	10	0.006	7	0.004									24	0.01
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						

0.06

0.04

0.00

0.00

0.00

0.00

0.00

0.00

0.04

0.00

0.00

INTERIM CONTRACTOR SUPPORT

INSTALL COST

TOTAL PROCUREMENT

0.14

0.16

CLASSIFICATION: UNC	LAS	SIFIED		INIDI	VIDIL		ODIFICAT	ION (2																				
P3A (Continued)				INDI	VIDU	AL M	ODIFICAT	ION (Conti	nued)																			
MODELS OF SYSTEMS	AFFE	CTED:	SSN				МС	DIFIC	CATIC	N TITLE	:		4143	KP N	/IFD 3	/9 Han	dwhee	el								_			
INSTALLATION INFORM	MATIC	N·	PLUS	2 SHC	DRE SI	TES																							
METHOD OF IMPLEME	_		AIT			_																							
ADMINISTRATIVE LEAD			}	Mon	ths	-	PRODUC		LEAD	OTIME:			12	Mo	nths		_												
CONTRACT DATES: DELIVERY DATE:		2000: 2000:		-			FY 2001: FY 2001:						-			FY 20													
DELIVERY DATE.		2000.		-			1 1 2001.		-				-			1120	<i>1</i> 02.						•						
		.,			_		5) / 600 /		=>/-				(\$ in M					<u></u>				-		-> /					-
Cost:	Qty	r Years \$	Qty	Y 200		Qty	FY 2001 \$	Qt	FY 2	\$ \$	Qty	FY 20	\$	Qty	FY 2	004 \$	Qty	FY 20	\$	Qty	Y 2006 \$		Qtv	FY 200) <i>/</i> B	Qty	omplete \$	Qty	Total v \$
	Qıy	<u> </u>	Qiy		Ψ	Q.,	Ψ		1	Ψ	Q.y		Ψ	Q.y		Ψ	Q.y		Ψ	Qij	<u> </u>	,	Qıy	,	ν	Q.y	Ψ_	<u> </u>	,
PRIOR YEARS																													
FY 2000 EQUIPMENT																													
FY 2001 EQUIPMENT																													0 0.0
FY 2002 EQUIPMENT									7	0.04																			7 0.0
FY 2003 EQUIPMENT											10		0.06	3														1	0 0.0
FY 2004 EQUIPMENT														7		0.0	4												7 0.0
FY 2005 EQUIPMENT																													0
FY 2006 EQUIPMENT																													0.0
FY 2007 EQUIPMENT																													0.0
TO COMPLETE																													0
	-		•			•								•								•							
INSTALLATION SCH	EDUL	E:																											
FY 2000		FY 2	2001			FY	2002		<u> </u>	Y 2003			FY 2	2004			FY	2005			FY 20	006			FY 2	2007		TO	2
& Prior		1 2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In 0		0 0	0	0	3	3	1 0	4	4	2	0	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Out 0		0 0	0	0	0	3	3 1	C	4	4	2	0	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	24

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ITEM

РЗА		INDIVIDUA	L MO	DIFICAT	ΓΙΟΝ																	
MODELS OF SYSTEM AFFECTED:	SSN	l 719-725, 7	50-773	3.	TYP	E MODII	FICAT	ION:		KP SHI	PALT	_			MOE	DIFICATI	ON T	ITLE:		g Linkage U	pgrade	
DESCRIPTION/JUSTIFICATION:												-							(5A11	8)		
This alteration modifies the VLS fairing to I	Muzzle	Hatch conn	ecting	links wit	th pred	dominan	tly off-	shelf har	dware	to provid	de incr	eased ac	ccurac	y of adju	stmen	nt and eli	minat	e potent	ial bindi	ng and inte	rference are	as.
L DEVELOPMENT STATUS/MAJOR DEVELO	DPMEI	NT MILESTO	ONES:																			
	EV 1	1999 & Prior	E,	Y 2000		Y 2001	E,	Y 2002	E\	r 2003	Ε\	<u> 2004</u>	E,	Y 2005	ΕV	/ 2006	E\	/ 2007		<u>TC</u>	TO:	TAL
	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY			\$	QTY		QTY	<u>1AL</u> \$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT				0.02			1	0.24	2	0.15	1	0.08	2	0.15	2	0.16	4	0.32	17	1.46	29	2.57
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						

0.03

0.18

0.00

0.24

INSTALL COST

TOTAL PROCUREMENT

0.00

0.02

0.00

0.03

0.11

0.03

0.19

0.06

0.22

0.10

0.41

0.99

CLASSIFICATION: UNC	LAS	SIFIED																							
P3A (Continued)				INDIVID	UAL N	ODIFICATION	ON (C	ontinued)																	
MODELS OF SYSTEMS	AFFE	ECTED:	SSN 7	19-725,	750-77	73 MOI	DIFICA	TION TITLE	i:		Fairing	Link	age Upgra	de (5	A118)						_				
INSTALLATION INFORM METHOD OF IMPLEMENT ADMINISTRATIVE LEAD	NTAT DTIME	ION:	SHIPA 4 Mon			PRODUC1	ΓΙΟΝ L	EADTIME:			8	Mon													
CONTRACT DATES: DELIVERY DATE:		2000: 2000:		-		FY 2001: FY 2001:								2002: 2002:	_				-						
DELIVERT DATE.	ЕТ	2000.		-		F1 2001.		-					ГТ.	2002.	-				-						
0	D-:			/ 0000	1	EV 0004	1	TV 0000			n Millio		7/ 0004	1	EV 0005			, oooo		7/ 0007	1	0	-1-		T-4-1
Cost:	Qty	or Years \$	Qty	/ 2000 \$	Qty	FY 2001	Qty	Y 2002 \$	Qty	FY 2003 \$		Qty	Y 2004 \$	Qtv	FY 2005		Qty	/ 2006 \$	Qty	Y 2007	Qt	Comple	ete \$	Qty	Total \$
PRIOR YEARS		,		*		·		,		*			•							,			·		Ť
FY 2000 EQUIPMENT																								0	0.00
FY 2001 EQUIPMENT																								0	0.00
FY 2002 EQUIPMENT									1		0.03													1	0.03
FY 2003 EQUIPMENT												1	0.0	3	1	0.03								2	0.06
FY 2004 EQUIPMENT																	1	0.03						1	0.03
FY 2005 EQUIPMENT																	1	0.03	1	0.0	3			2	0.06
FY 2006 EQUIPMENT																			2	0.0	6			2	0.06
FY 2007 EQUIPMENT																						4	0.14	4	0.14
TO COMPLETE																					1	7	0.60	17	0.60
INSTALLATION SCH	EDUL	.E:			•		•		•		•			•		•			•		•		-		
FY 2000		FY 20	001		<u>F</u>	/ <u>2002</u>		FY 2003			FY 20	004		FY	/ 200 <u>5</u>			FY 2006		<u>FY</u>	2007	<u>, </u>		TC	
& Prior		1 2	3	4	1 2	3 4	1	2 3	4	1	2	3	4 1	2	3	4	1	2 3	4	1 2	3	3 4			TOTAL
In 0		0 0	0	0	1 0	0 0	1	0 0	0	1	0	0	0 1	0	0	0	0	0 0	0	1 0	C	0		26	31
Out 0		0 0	0	0 (0 1	0 0	0	1 0	0	0	1	0	0 0	1	0	0	0	0 0	0	0 1	C	0	ı	26	31
																				P-3	Δ				

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CLASSIFICATION: UNCLASSIFIED

P3A		INDIVIDUA	L MO	DIFICAT	ION											•		•				
MODELS OF SYSTEM AFFECTED:	SSN	l 719-725, 7	50-773	3.	TYPI	E MODII	FICAT	ION:		KP SHI	PALT	<u>.</u>			MOD	IFICATI	ON TI	ITLE:			testraint Upg	grade
DESCRIPTION/JUSTIFICATION:																			(5A11	8)		
This alteration modifies the VLS fairing to N	Muzzle	Hatch conn	ecting	links wit	h pred	dominan	tly off-	shelf har	dware	to provid	le incre	eased ac	curac	y of adju	stmen	t and eli	minate	e potent	ial bindi	ng and inte	rference are	as.
L DEVELOPMENT STATUS/MAJOR DEVELO	DPMFI	NT MILESTO	ONES																			
													_		_		_					
	FY 1 QTY	999 & Prior \$	<u>F`</u> QTY	<u>Y 2000</u> ' \$	F) QTY	<u>/ 2001</u> \$	<u>F`</u> QTY	<u>/ 2002</u> \$	<u>FY</u> QTY	<u>/ 2003</u> \$	FY QTY	<u>2004</u> \$	<u>F`</u> QTY	<u>/ 2005</u> \$	FY QTY	<u>2006</u> \$	F) QTY	<u>/ 2007</u> \$	QTY	<u>TC</u> \$	QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)				_								,				_		Ī		, , , , , , , , , , , , , , , , , , ,	T	
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT				0.02			1	0.39	2	0.48	1	0.24	2	0.5	2	0.49	4	0.99	19	5.09	31	8.20
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						

0.07

0.55

0.07

0.07

0.56

0.14

0.64

0.22

1.21

0.00

INSTALL COST

TOTAL PROCUREMENT

0.00

0.02

0.00

2.42

CLASSIFICATION: UNC	CLAS	SIFIED																										
P3A (Continued)				INDI	VIDUA	L M	ODIFICATIO	ON (Co	ontinue	d)																		
MODELS OF SYSTEMS	AFFE	ECTED:	SSN 7	719-72	25, 750)-773	MOE	DIFICA	TION T	TTLE:			Fairing	g Link	age R	Restrai	nt Upg	grade (5A	118)					_				
INSTALLATION INFORM METHOD OF IMPLEME ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	NTAT OTIME FY	ION:	SHIPA 4 Mon				PRODUCT FY 2001: FY 2001:	ION L	EADTIN	ИЕ:	-		8	Mon	nths	FY 20 FY 20						-						
													in Milli															
Cost:	Prio Qtv	or Years \$	Qty	2000			FY 2001 \$		FY 2002 \$		Qty	Y 200 \$		Qty	Y 200)4 \$	Qty	Y 2005 \$	Qty	Y 2006	\$ \$		Y 2007 \$	To (Comple	te B	Qty	Total \$
	Qty	- P	Qiy	,	Ф	Qty	Ф	Qty	<u> </u>		Qly	7)	Qty		Ф	Qty	Ф	Qty	•	Φ	Qty	Ф	Qty	1	₽	Qly	Ф
PRIOR YEARS																											i	
FY 2000 EQUIPMENT																											0	0.00
FY 2001 EQUIPMENT																											0	0.00
FY 2002 EQUIPMENT											1		0.07														1	0.07
FY 2003 EQUIPMENT														1		0.07	1	0.0)7								2	0.14
FY 2004 EQUIPMENT																				1	0.07						1	0.07
FY 2005 EQUIPMENT																				1	0.07	1	0.0	7			2	0.15
FY 2006 EQUIPMENT																						2	0.1	5			2	0.15
FY 2007 EQUIPMENT																									ı	0.32	4	0.32
TO COMPLETE																								19)	1.52	19	1.52
INSTALLATION SCH	EDUL	E:				•				•										•		•						
FY 2000		FY 2	<u>:001</u>			FY	2002		FY 2	003			FY 2	004			FY 2	<u> 2005</u>		FY 2	006		FY	2007			<u>TC</u>	
& Prior	↓	1 2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3 4	1	2	3	4	1 2	3	4			TOTAL
In 0		0 0	0	0	0	0	0 0	1	0	0	0	1	0	0	0	1	0	0 0	1	1	0	0	2 1	0	0		23	31
Out 0		0 0	0	0	0	0	0 0	0	1	0	0	0	1	0	0	0	1	0 0	0	1	1	0	0 2	1	0		23	31
																							D 2/					

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CLASSIFICATION: UNCLASSIFIED

P3A		INDIVIDUA	L MO	DIFICA	TION	·								·				·				
MODELS OF SYSTEM AFFECTED:	SSN	l 719-725, 7	50-773	3.	TYP	E MODII	FICAT	ION:		KP SHI	PALT				MOE	IFICATI	ON TI	ITLE:		ulics Block	Upgrade	
DESCRIPTION/JUSTIFICATION:																			(5A11	8)		
This alteration modifies the VLS fairing to I	Muzzle	Hatch conn	ecting	links wi	th pred	dominan	tly off-	shelf ha	dware	to provi	de incre	eased ac	curac	y of adju	stmen	t and eli	minate	e potenti	al bindi	ng and inte	rference are	eas.
DEVELOPMENT STATUS/MAJOR DEVELO	OPME	NT MILESTO	ONES:																			
	FY 1	1999 & Prior	E,	Y 2000	F\	Y 2001	E/	Y 2002	ΕV	2003	FΥ	2004	E,	Y 2005	F۱	′ 2006	F۱	/ 2007		<u>TC</u>	TO	TAL
	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	<u>10</u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT							1	0.54			1	0.20			1	0.21	2	0.42	26	5.93	31	7.29
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						

0.00

0.00

0.25

0.45

0.19

0.19

0.00

0.21

0.19

0.61

0.00

0.54

INSTALL COST

TOTAL PROCUREMENT

0.00

0.00

0.00

6.62

CLASSIFICATION: UNC	LAS	SIFIED																								
P3A (Continued)				INDIVID	UAL N	ODIFICATION	ON (C	ontinued)																		
MODELS OF SYSTEMS	AFF	ECTED:	SSN 7	19-725, 7	750-77	73MOI	DIFICA	ATION TIT	LE:	_	Нус	draulics	Block	Upgra	de (5/	A118)						-				
INSTALLATION INFORM METHOD OF IMPLEMEN ADMINISTRATIVE LEAD CONTRACT DATES: DELIVERY DATE:	NTAT TIME FY	ION: : : 2000:	SHIPA 4 Mon		<u> </u>	PRODUCT FY 2001:	TON L	EADTIME	i:			8 Mo	nths	FY 20												
DELIVERY DATE:	Γĭ	2000:				FY 2001:					_			FY 20	JU2:											
Conti	D-:	- V		′ 2000	-	EV 2004	1	FY 2002		ΓV	· ·	/lillions)	FY 20	0.4	-	FY 2005		Y 2006	-		V 2007	т. О		_		Tatal
Cost:	Qty	or Years \$	Qty	\$	Qty	FY 2001 \$	Qty	\$ \$	Q		2003	Qty		\$	Qty	\$	Qty	\$	-	Qty	Y 2007 \$	Qty	omplet \$		Qty	Total \$
PRIOR YEARS			-																							
FY 2000 EQUIPMENT																									0	0.00
FY 2001 EQUIPMENT																									0	0.00
FY 2002 EQUIPMENT												1		0.25											1	0.25
FY 2003 EQUIPMENT																									0	0.00
FY 2004 EQUIPMENT															1	0.19)								1	0.19
FY 2005 EQUIPMENT																									0	0.00
FY 2006 EQUIPMENT																				1	0.19				1	0.19
FY 2007 EQUIPMENT																						2		0.43	2	0.43
TO COMPLETE																						26		5.56	26	5.56
INSTALLATION SCH	EDUL	E:			·				·			·							٠					•		
FY 2000		FY 2	001		<u>F\</u>	<u>/ 2002</u>		FY 200	<u>13</u>		F	Y 2004			FY:	<u> 2005</u>		FY 200	<u>6</u>		FY 2	2007			<u>TC</u>	
& Prior		1 2	3	4 1	2		1	2 3		4	1 2		4	1	2	3 4	1		3	4	1 2	3	4			TOTAL
In 0		0 0	0	0 0			0	0 0		- II	1 0		0	1	0	0 0	0		0	0	1 0	0	0		28	31
Out 0		0 0	0	0 0	0	0 0	0	0 0) (0	0 1	0	0	0	1	0 0	0	0	0	0	0 1	0	0		28	31
																					P-3A					
						ľ	TEM	10)7	2	20							C	LAS	SIFIC	CATION: U	NCL	ASSIFI	ED		

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	L MO	DIFICAT	TION																	
MODELS OF SYSTEM AFFECTED:	SSN	719-725, 75	50-773		TYPE	E MODII	FICAT	ION:		KP SHI	PALT				MOD	IFICATI	ON TI	TLE:	Hall S			
DESCRIPTION/JUSTIFICATION:																			(5A11	8)		
This alteration replaces internal glass-body										h actuat	ed by a	a single	pole m	nagnetic	field to	provide	ease	of manu	ufacture	, eliminate	magnet rota	itional
positioning of present magnets, and allow	use of	nigner reliad	ollity m	agnets i	setter s	suited to	tne er	nvironm	ent.													
DEVELOPMENT STATUS/MAJOR DEVELO	DMEN	IT MII ECT	NIEO.																			
DEVELOPMENT STATUS/MAJOR DEVELO	JPIVIEI	NI WILESIC	JNES.		-																	
	FY 1 QTY	999 & Prior \$		<u>2000</u> \$	<u>FY</u> QTY	<u>2001</u> \$	<u>F\</u> QTY	<u>2002</u> \$	<u>FY</u> QTY	2003 \$	<u>FY</u> QTY	<u>2004</u> \$	<u>F\</u> QTY	<u>/ 2005</u> \$		<u>2006</u> \$	FY QTY	<u>2007</u> \$	QTY	<u>TC</u> \$	TO QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)														·								
·																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT													1	0.13	5	0.35	6	0.43	19	1.41	31	2.31
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																0.10		0.25		1.28		1.62

TOTAL PROCUREMENT

0.13

0.44

CLASSIFICATION: UNC	LASS	SIFIED																					
P3A (Continued)				INDIVID	UAL N	ODIFICATION	ON (Co	ontinued)															
MODELS OF SYSTEMS	AFFE	CTED:	SSN 7	19-725, 7	750-77	<u>3</u> MOI	DIFICA	ATION TITL	E:	<u></u>	Hall Sv	vitch	(5A118)							-			
INSTALLATION INFORM METHOD OF IMPLEMEN ADMINISTRATIVE LEAD	TAT	ION:	SHIPA 2 Mon		_	PRODUCT	ΓΙΟΝ L	EADTIME:			6	Mont	:hs										
CONTRACT DATES: DELIVERY DATE:		2000: 2000:		-		FY 2001: FY 2001:								2002: 2002:									
										(\$ in	Millio	ns)											
Cost:		r Years		2000		FY 2001		FY 2002		FY 2003	3	F\	Y 2004		Y 2005		Y 2006		FY 2007		omplete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	(Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																							
FY 2000 EQUIPMENT																							
FY 2001 EQUIPMENT																				ŀ			
FY 2002 EQUIPMENT																							
FY 2003 EQUIPMENT																							
FY 2004 EQUIPMENT																							
FY 2005 EQUIPMENT																1	0.10					1	0.10
FY 2006 EQUIPMENT																		5	0.25			5	0.25
FY 2007 EQUIPMENT																				5	0.2	5	0.26
TO COMPLETE																				20	1.0	2 20	1.02
INSTALLATION SCHE	DUL	E:			•		•		·		•					•						•	
FY 2000 & Prior		FY 20	001 3	4 1	<u>FY</u> 2	<u>′ 2002</u> 3 4	1	FY 2003 2 3	4	1	FY 20 2	0 <u>04</u> 3	4 1	<u>FY</u> 2	2 <u>005</u> 3 4	1	FY 2006 2 3	4	FY 2	<u>2007</u> 3	4	<u>TC</u>	TOTAL
In 0		0 0	0	0 0			0	0 0	0	0	0	0	0 0	0	0 0	1	0 0	0	2 2	1	0	25	31
Out 0		0 0	0	0 0	0	0 0	0	0 0	0	0	0	0	0 0	0	0 0	0	1 0	0	0 2	2	1	25	31
																					_		
																			P-3A				

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CLASSIFICATION: UNCLASSIFIED

P3A INDIVIDUAL MODIFICATION

MK-41 Vertical Launch Surface S) TYPE MODIFICATION: MODELS OF SYSTEM AFFECTED: MK-41 Verticial Launching System MODIFICATION TITLE: MK-41 VLS ORDALTS

Jan-02

DESCRIPTION/JUSTIFICATION:

Various ORDALTs for providing launch capability for newer missile variants as well as greater reliability, operability and maintainability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & Prior				<u>F\</u>	2001	<u>F</u>	2002		2003		2004		2005		2006		2007		<u>TC</u> \$		<u>TAL</u>
						1		\$	QTY	\$	QTY	\$										
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					var	1.1	var	0.4	var	0.3	var	0.2	var	2.8	var	2.8	var	0.5			var	8.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER TOOLING/TEST EQUIP						0.0		0.0		0.0		0.0		0.0		0.0		0.0				0.0
OTHER PRODUCTION						1.6		0.2		0.2		0.2		0.2		0.2		0.2				2.9
INTERIM CONTRACTOR SUPPORT						0.026		0.000		0.000		0.000		0.000		0.000		0.000				0.0
INSTALL COST						1.1		0.5		0.0		0.1		0.1		0.1		0.1				1.9
TOTAL PROCUREMENT						3.7		1.1		0.5		0.6		3.0		3.0		0.8				12.8

P3A (Continued)					INDIVI	DUAL	MODIFIC	OITA	l (Continu	ed)																		
MODELS OF SYSTE	EMS AFF	ECTE	ED: <u>D</u> E	D963/C	G47/DD	G51 C	<u>l</u> ass	МС	DIFICATION	TIT NC	ГLЕ <u>:</u>	MK-4	41 Ve	rtical L	.aunch	ning S	System	1		JAN	UARY	Y 200)2	_				
INSTALLATION INF	ORMATI	ON:																										
METHOD OF IMPLE	MENTA	ΓΙΟΝ:		AIT																								
ADMINISTRATIVE L	EADTIM	E:		6 Moi	nths		PRODU	CTION	I LEADTIN	1E:		18	Mor	nths														
CONTRACT DATES	S:	FY 20	000:	- "			FY 200	l:							FY 20	002:												
DELIVERY DATE:		FY 20	000:		-		FY 200	l:				_			FY 20	002:	-				_							
											(\$ in	Million	s)															
Cost:			Years		2001		Y 2002	_	FY 2003		FY 20			Y 200			Y 200			2007			plete		Total			
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	У	\$	Qty	9	5	Qty	\$		Qty	\$	Qt	у	\$	Qty	\$			
PRIOR YEARS																					_					0.0		
FY 2000 EQUIPME	NT			var	1.1																			var		1.1		
FY 2001 EQUIPME	:NT					var	0.	5																		0.5		
FY 2002 EQUIPME	NT								0.0																	0.0		
FY 2003 EQUIPME	:NT									var		0.1														0.1		
FY 2004 EQUIPME	NT												var		0.1											0.1		
FY 2005 EQUIPME	NT															var		0.1								0.1		
FY 2006EQUIPME	NT																		var	0	.1					0.1		
FY 2007 EQUIPME	NT																									0.0		
TO COMPLETE							<u> </u>		<u> </u>													_ _						
10.074114716		5	_																									
INSTALLATIO	r				1 -									1			11								Г		-TI	
	/ 2000 & Prior		FY 200 2 3		1	FY 20	<u>02</u> 4 1		2003 3 4	1		<u>7 2004</u> 3	4	1	<u>FY 2</u> 2		4	1	<u>FY 2</u> 0	<u>006</u> 3 4	FY 2		2 3	4		TC		TOTAL
IN	0	0	0 0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0	0	0	0		11		0	0		0		0
OUT _	0	0	0 0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0) (0	0		0	╙	0
								ITE		. -											400	- EIC (1	P-3A			FD.		
								ITEM	10	7 P	PAGE	24								CL	ASSI	FICA	TION: U	JNCL	ASSIFI	ΕD		

		BUDGE	T ITEM JUS	TIFICATION	SHEET			DATE:			
			P-	-40					Februa	ry 2002	
APPROPRIATION/BUD	GET ACTIVIT	Υ				P-1 ITEM NOM	ENCLATURE				
OTHER PROCURE	MENT, NA	VY - (BA	-4) Ordnanc	e Support E	quipment	Str	ategic Platfo	rm Support	Equipment/#	535500/#535	506
Program Element for Co	ode B Items:					Other Related I	Program Elemer	nts			
	Prior	ID								То	
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY											
COST											
(In Millions)		Α	\$2.9	\$9.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$12.6
SPARES COST											
(In Millions)											\$0.0

PROGRAM DESCRIPTION/JUSTIFICATION:

Funding in this P-1 line provides for the procurement of TRIDENT Platform Support Equipment, specifically for ordnance support, ship alterations and test equipment for the TRIDENT Submarine and TRIDENT Refit Facility (TRIREFFAC) located at Naval Submarine Bases (Bangor, WA and Kings Bay, GA) and other support facilities. The TRIDENT program has shifted from its modernization phase to a program designed to maintain TRIDENT's capability to perform its defined mission. This will be accomplished via its Obsolete Equipment Replacement (OER) program.

OBSOLETE EQUIPMENT REPLACEMENT (OER) - Replacement of existing ordance hardware/software that though functional has become operationally obsolete, is no longer in production or supportable with spare parts, has a high failure rate, or is no longer cost effective to maintain. OER hardware/software changes would be expected to provide a significant cost savings in reduced maintenance costs and would use Commercial-Off-The-Shelf (COTS) Technology where ever possible as long as all technical requirements are met.

INSTALLATION (ORDNANCE) - Provides funding for ordnance equipment installation (commenced FY98) resulting from the TRIDENT OER Program.

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 108 PAGE NO. 1

UNCLASSIFIED

	WEAPONS SYSTEM C	OST AN	IALYSIS			Weapon Sy	stem						DATE:	
	P-5					TRIDENT D	efensive W	eapons Syste	em				Februai	ry 2002
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATUI	RE/SUBHEAD)				
Other Pr	ocurement, Navy							DI 16 0						
BA-4: 0	ordnance Support Equipment	1					Strategic	Platform S	upport Eq	uipment/8	34U9			
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS								
COST	ELEMENT OF COST	ID	Prior		FY 2001			FY 2002			FY 2003			
CODE		Code	Years						T					1
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	N872													
	<u>N072</u>													
U9221	Equipment OER	Α				2,861			9,074			0		
U9INS	Installation	Α				0			662			0		
														1
														1
														1
														1
		•	0			2,861			9,736			0		
DD FORM	2446 JUN 86		·	!	P-1 SHOPPIN	GLIST			2,.00	!	ļ.	CLASSIFICA	+	

UNCLASSIFIED

	WEAPONS SYST	EM COST	ANALYSI	s			Weapon Sy	rstem							DATE:		
		P-5					TRIDENT [Defensive	Weapons S	System						Febr	uary 2002
	PRIATION/BUDGET ACTIVITY						ID Code	P-1 ITEM	NOMENCLA	ATURE/SUBI	HEAD						
	Procurement, Navy Ordnance Support Equipment						A	Strateg	ic Platfori	m Support	Equipme	ent/84U9					
COST	ELEMENT OF COST		FY 2004	ļ		FY 2005	5		FY 2006	i		FY 2007	•	То	Complete	\Box	Total
CODE		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
	<u>N872</u>													 			
	inor <u>z</u>																
U9221	Equipment OER			0			C			О			C)			11,935
U9INS	Installation			0													662
OBING	Installation													,			002
															<u> </u>		
DD FOR	M 2446, JUN 86			0		PPING LIST	0]	0			CLASSIFICA				12,59
אט דעם	IVI 2440, JUN 00			ITEM NO.	108	-LING FIQ1	PAGE NO.	3					CLASSIFICA	ATION.			

UNCLASSIFIED

BUDGET PROCUREMENT HISTO	ORY AND	PLANNING	EXHIBIT (P-5A)			Weapon System		A. DATE		
									February 20	02
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOW	IENCLATURE			SUBHEAD	
Other Procurement, Navy					Strategic Pla	tform Support Equipme	ent			84U9
BA-4: Ordnance Support Equip	ment				U9221 Obso	lete Equipment Replace	ment (O	ER)		
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
Fiscal Year (01)										
MK2 Block 1C (ATWCS)	1	\$365.70	NAVSEA	N/A	WR	NUWC Newport, RI	8/01	4/02	YES	
CCS Rev. 7.1 Certification/Testing	1	\$400.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
CSA MK2 6" EXCM HM&E Material	1	\$504.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/01	4/02	YES	
CCS Rev. 7.1 Planning Yard	1	\$996.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/01	4/02	YES	
CCS MK2 Block 1C (TUE)	*	\$142.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
ARCI Phase I/II(TA&HA MPP)(TUE)	*	\$366.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
AN/UYK-43 OSM (NUWC)	1	\$87.30	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	2/01	4/02	YES	
Fiscal Year (02)										
CSA MK2 6" EXCM HM&E Material	8	\$558.75	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/02	4/04	YES	
CSA MK2 6" EXCM Installation	2	\$1,087.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/02	4/04	YES	
CSA MK2 6" EXCM Installation	1	\$583.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/02	4/04	YES	
MANTIS II Sonar (SSBN 730, 731)	1	\$797.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/02	4/04	YES	
MANTIS II IC (SSBN 730, 731)	1	\$26.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/02	4/04	YES	
MANTIS II TSS (SSBN 730, 731)	1	\$56.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/02	4/04	YES	
TAC 3/4 Upgrade	1	\$475.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/02	4/04	YES	
Command Upgrade	1	\$230.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/02	4/04	YES	
CCS Rev. 6.4 TACNAC Dev.	1	\$26.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/02	4/04	YES	
Rev. 7.3 ARCI Phase I/II PY	1	\$64.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/02	4/04	YES	
CCS Rev. 7.3 DPS Development	1	\$173.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/02	4/04	YES	

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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^{*} Procurement to support modification of TRIDENT Shore Sites and installation of shore based CCS MK2 Block 1C. Procures various components/technical support not broken out on this report.

UNCLASSIFIED

BUDGET PROCUREMENT HISTO	RY AND PL	ANNING EX	(HIBIT (P-5A)			Weapon System		A. DATE		
									February 20	02
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4: Ordnance Support Equip	ment				C. P-1 ITEM NON Strategic Pla U9INS Instal	atform Support Equipm	ent		SUBHEAD	84U9
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
Fiscal Year (01) None		, ,								
Fiscal Year (02) CSA MK2 6" CNTMRs Installation	1	\$662.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/02	4/04	Yes	
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 108 PAGE NO. 5 **UNCLASSIFIED**

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDUA	L MO	DIFICAT	ION																	
		NT Defensive We																			ECP004 Upgrade	on
MODELS OF SYSTEM AFFECTED:	MK2 M	1od3//DWS MK118	OER L	Jpgrade	_IYP	E MODI	FICAT	ION:	Obsolet	e Equipmen	t Replace	ement	_		MOL	IFICAT	ION II	TLE:	OHIO	Class Submari	nes	
DESCRIPTION/JUSTIFICATION:																						
Replace obsolete equipment and achieve	optim	um commona	ality a	mong su	ıbmari	ine coml	oat sys	tems.														
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	NT MILEST	ONES	S:	OPE	VAL = 7	7/94					_										
	EV 2	.000 & Prior			E,	Y 2001	E'	Y 2002	ΕV	/ 2003	E\	′ 2004	E\	Y 2005	ΕV	⁄ 2006	EV	2007		<u>TC</u>	TC	TAL
	QTY				_	<u> </u>		\$	QTY		QTY		QTY			\$		\$	QTY	, <u>10</u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E		5.6																			0	5.6
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	*	6.53																			0	6.5
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT	*	2.30																			0	2.3
SUPPORT EQUIPMENT	*	1.4																			0	1.40
OTHER*	*	3.2			*	2.37															0	5.57
OTHER*	*	1.24																			0	1.24
OTHER**																						

ITEM 104 PAGE 6 CLASSIFICATION: UNCLASSIFIED

Note #2 CCS MK2 Block 1C Installation costs are covered under ARCI/CCS MK2 Block1C Installation during D-5 Conversion Period (ie. SSBN 732 (in FY00) and SSBN 733 (in FY01) are covered under BA2 Installation (BLI 267606)).

0.0

0.00

0

0.0

0

0.0

0

0.0

0

0.0

0.0

0

0.14

17.0

0.14

14.7

Note #2

2.4

INTERIM CONTRACTOR SUPPORT

INSTALL COST

TOTAL PROCUREMENT

^{*} Procurement to support modification of TRIDENT CCS MK2 Block 1C Shipsets and Shore Sites and installation of shore based CCS MK2 Block 1C.

CLASSIFICATIO	N: UNC	LAS	SIFIED																												
P3A (Continued)					INDI	VIDU	AL M	ODIFI	CAT	ION (Contin	ued)																			
MODELS OF SY	'STEMS	AFFE	CT <u>ED:</u>						MOD	IFICA	TION	TITLE		CCS	MK2	Block	< 1C E	CP0	04 Up	grade	on Ol	HIO Cla	ass Su	bmari	ne			•			
INSTALLATION																															
METHOD OF IM				Engine	ered /	Availa	abilitie																								
ADMINISTRATI\ CONTRACT DA		_		12/99				FY 2		HON	LEAD	11ME: 12/00	-	24 N	/lonths			FY 2	002			12/01									
DELIVERY DATE			-	12/99				FY 20				12/00						FY 2				12/03									
			-		•															•					•						
Cost:	ı	Drior	Years					Y 200	1		Y 200	2		(\$ i Y 200	in Millio		Y 200	14	_	Y 200	5		/ 2006	:		Y 200	7	To Co	mplete		Total
0031.		Qty					Qty	\$		Qty	1 200		Qty			Qty		<u> </u>	Qty	\$		Qty		, B	Qty	1 200		Qty	\$	Qty	\$
			te a					Not		1	No	te a	1			,			,	,					,				*		,
PRIOR YEARS		*					*		0.0	*		0.00	,																	0	0.1
FY 2000 EQUIP	PMENT																													0	0.0
FY 2001 EQUIP	PMENT																													0	0.0
FY 2002 EQUIP	PMENT																													0	0.0
FY 2003 EQUIF	PMENT																													0	0.0
FY 2004 EQUIF	PMENT																													0	0.0
FY 2005 EQUIF	PMENT																													0	0.0
FY 2006 EQUIF	PMENT																													0	0.0
FY 2007 EQUIF	PMENT																													0	0.0
TO COMPLETE	=																														
INSTALLATIO	ON SCHE	DUL	E (Shipl	board):																											
FY	/ 2000		FY 2	2001			FY 2	2002			FY 2	2003			FY 2	004			FY 2	2005			FY 20	006			FY 2	2007		TC	
8	& Prior		1 2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																											P-3A				
										EM				GE										CLAS	SSIFI	CATIC	ON: U	JNCL/	SSIFIE)	
Note a: Installa Block 1C)	tion of T	RIDE	NT Life	Cycle S	Suppo	ort Fa	cility S	Shore	Site	and S	SBN 7	'32 shi	pset i	in FY	00, 733	3 in F	Y01,	and 7	35 in	FY02.	(MK2	2									
* Installation of	f MK2 Bl	ock 1	С																												

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	L MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	CSA I	MK2 MOD 0			TYP	E MODIF	FICAT	ION:	Obsole	te Equipm	ent Rep	lacement	_		MOD	IFICATI	ON TI	TLE:	Six Ea	ach External C	Countermeasure	es
DESCRIPTION/JUSTIFICATION:																						
Replaces the CSA MK1 5 Inch External Co	untern	neasure Sys	tem w	ith the C	SA M	K2 MOD	6 Inc	h Externa	al Cour	ntermeas	sure S	ystem on	SSB	Ns 730-7	33, 73	35-740.						
DEVELOPMENT STATUS/MAJOR DEVELO	OPMEN	NT MILESTO	NES:									5										
	FY 2	000 & Prior			F۱	Y 2001	F۱	Y 2002	FY	2003	F۱	2004	F۱	Y 2005	FΥ	2006	FY	2007		<u>TC</u>	TO	TAL
	QTY	\$		I	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$	QTY		QTY	<u></u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
<u>RDT&E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	1	**			1	0.50	8	4.47													10	5.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER							*	2.76														2.76
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST							8	0.66													8	0.7
TOTAL PROCUREMENT	1	0.00	0	0.00	1	0.50	8	7.23	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10	7.7
								ITEM 108	,	P	AGE 8								CLA	SSIFICATION	ON: UNCLA	SSIFIED

^{*} Installation Activity under review

^{**} One procurement made with BA2 (267600) in FY00.

CLASSIFICAT		LASS	IFIED																												
P3A (Continue	ed)				INDI	VIDU	AL M	IODIFI	CAT	ION (C	Continu	ıed)																			
MODELS OF S	SYSTEMS	AFFE	CT <u>ED:</u>	CSA	MK2 N	MOD (0	_	MOD	IFICA	TION T	ITLE:		Six I	nch E	xterna	al Cou	ıntern	neasu	res								_			
INSTALLATIO	_	_		- .			,																								
METHOD OF I				Three p	hased	refit/	piersi				LEADT			12 N	1onthe	s / 9 N	lontho	fork	ito												
CONTRACT D		_	2000:	12/99)			FY 2				12/00	-	12 10	ionini	5 / 9 IV	OHUIS		2002:			10/01									
DELIVERY DA	_		2000:	9/00	_			FY 2				9/01							2002:			7/02			•						
														(\$ in	Millio	ns)															
Cost	:	Prior	Years				F	Y 200)1	F	Y 2002	2	F	Y 200)3		Y 200	04		Y 200)5	F`	Y 2006	3	F	Y 200)7		omplete	Э	Total
		Qty	\$				Qty	\$		Qty	\$		Qty	9	5	Qty	Ç	\$	Qty	,	\$	Qty	:	\$	Qty	(\$	Qty	\$	Qty	\$
PRIOR YEAR	RS																													0	0.0
FY 2000 EQL	JIPMENT									1	*																			1	0.0
FY 2001 EQL	JIPMENT									1	*																			1	0.0
FY 2002 EQL	JIPMENT									6	0.6	6																		6	0.66
FY 2003 EQL	JIPMENT																													0	0.0
FY 2004 EQL	JIPMENT																												<u> </u>	0	0.0
FY 2005 EQL	JIPMENT																												<u> </u>	0	0.0
FY 2006 EQL	JIPMENT																												<u> </u>	0	0.0
FY 2007 EQL	JIPMENT																												<u> </u>	0	0.0
TO COMPLE	TE																												<u></u>		
INSTALLAT		DULE				<u> </u>				, 				_								1				_					
	FY 2000			2001				2002		_	FY 2					2004				2005			FY 2					2007		TC	TOTAL
- In	& Prior 0	-	1 2 0 0	<u>3</u> 0	0	0	_ <u>2</u> 1	3 -	0	0	2 _	0	0	0	0	3	4	0			0	0		0	0	0	0	30	0	0	TOTAL 1
Out	0		0 0	0	0	0	0	1	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
_		1 —				0															<u> </u>										•
* Installation	on Activity	under	review																												
																											P-3				
				•					ITEM	1 108			PAG	SE 9										CLAS	SSIFI	CATIC	ON:	UNCL	ASSIFI	ΞD	

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BUDGET ITEM JUSTIFICATION SHE	ĒΤ				DATE F	ebruary 2002	!
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 4		P-1 ITEM NO STRATEGIC N	MENCLATUI MISSILE SYS		MENT (535800	0)	
	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
QUANTITY							
Cost (in millions)	\$164.9	\$127.0	\$75.0	\$109.6	\$129.1	\$150.5	\$131.4
Defense Emergency Relief Fund (DERF)/ Cost of War (COW)	\$0.0	\$0.0	\$4.0	\$0.0	\$0.0	\$0.0	\$0.0

The SSP funding in this P-1 line provides for the procurement of Strategic Weapons System (SWS) equipment for deployed SSBNs and shore support sites to support the TRIDENT program.

OTHER MATERIAL SUPPORT

A broad range of other material support equipment must be procured for deployed SSBNs, shore installations and contractor facilities. Included within this category are general and special purpose test equipment, launcher expendables, navigation principal items, test instrumentation in support of missile flight tests, missile checkout equipment and weapons system operation and evaluation equipment. Amounts included within this P-1 line for this category are subdivided as follows:

		(\$000)	
	FY 2001	FY 2002	FY 2003
Launcher and Handling Equipment	8,900	3,600	1,400
Fire Control Equipment	1,000	3,200	2,900
Navigation Equipment	3,300	8,800	8,700
Instrumentation/Missile Checkout Equipment	0	3,800	700
Total	\$13,200	\$19,400	\$13,700

Launcher and Handling Equipment: Funding in FY 2001 - FY 2003 is required to procure Launcher Expendables (namely, MK-74 Gas Generators and Launch Tube Closures).

Fire Control Equipment: Funding in FY 2001 - FY 2003 provides for Capital Maintenance Projects at the Naval Industrial Reserve Ordnance Plant (NIROP) in Pittsfield, MA; these projects are essential to correct environmental, safety and energy conservation deficiencies. The FY 2002 request also provides for procurement of MK-98 Mod 1 and Mod 4 Fire Control System and Support Equipment replacement items onboard SSBNs and at shore sites.

Navigation Equipment: Funding is required in all years for replacement of worn or damaged items of inertial test equipment used at contractors' plants to support test, evaluation, and analysis of inertial instruments; and for procurement of critical components essential to maintain configuration control and equipment reliability.

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P-1 SHOPPING LIST ITEM NO. PAGE NO. 109 1 **EXHIBIT P-40 BUDGET JUSTIFICATION SHEET**

Instrumentation/Missile Test Equipment: Funding in all years provides for shorebased and shipboard test instrumentation equipment in support of missile flight tests and for procurement of surface support equipment end items to satisfy replacement requirements generated by fleet-related tactical activities. The FY 2002 request also provides for procurement of, and upgrades to, telemetry and destruct systems essential to establishing a TRIDENT II (D5) flight test capability in the Pacific.

ALTERATIONS

Alterations to non-flying tactical hardware are continuing requirements for the Strategic Weapons Systems. Alterations (SPALTs) entail the application of available technology to eliminate personnel safety hazards, correct design deficiencies, maintain system effectiveness by resolving equipment operability problems, and achieve logistic economies. SPALT estimates include both known alterations related to resolution of specific problems as well as calculated, formula-generated alterations based on recent experience. Amounts included in this P-1 line for alterations are subdivided as follows:

		(\$000)	
	FY 2001	FY 2002	FY 2003
Launcher and Handling Equipment	950	2,200	16,700
Fire Control Equipment	12,350	38,700	6,000
Navigation Equipment	14,300	28,800	8,100
Instrumentation/Missile Checkout Equipment	1,900	9,000	6,800
Total	\$29,500	\$78,700	\$37,600

Funds are required to procure formula-generated alterations to the Strategic Weapons System launcher and fire control subsystems; to inertial, non-inertial, and Electrostatically Supported Gyro Navigator (ESGN) navigation subsystem equipment on deployed SSBNs and installed at supporting shore facilities, including the TRIDENT Training Facility (TTF), Bangor, TTF, Kings Bay, the Ashore Navigation Center, and the Inertial System Test Laboratory: to test instrumentation used on SSBNs, support ships and at the Eastern Test Range, the TRIDENT Refit Facility (TRF), Bangor, and TRF Kings Bay; and to missile handling equipment, missile test and readiness equipment, and surface support equipment. Installation of approved SPALTs is performed on a turnkey basis in conjunction with the procurement of equipment. Use of Commercial-off-the-Shelf/Non-Developmental Items (COTS/NDI) has been initiated and is being implemented in all subsystems, wherever possible. The FY 2002 request includes COTS-based life extension initiatives funding of \$1.0 million, which was provided under the "Smartship Upgrades" category in the final FY 2002 DoD Appropriations Act.

In addition to formula-based alterations to Launcher and Handling equipment, the FY 2003 request also provides for replacement of existing Launcher System Control Group (LSCG) tactical hardware with a refreshed, VME-based, distributed-processing network, open system architecture.

Funding is included in FY 2001 and FY 2002 for Fire Control alterations to assure a single configuration of TRIDENT II Strategic Weapons System. The same MK-98 Mod 4, COTS/NDI-based, open-system-architecture Fire Control System scheduled for installation on the four Pacific-based TRIDENT I SSBNs to be backfitted to TRIDENT II capability will be installed on the ten Atlantic-based TRIDENT II SSBNs that presently carry the MK-98 Mod 1 version.

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TRAINING

This category provides for procurement of, and alterations to, both tactical and non-tactical equipment required at submarine training facilities to train personnel in the operation and maintenance of launcher and handling, fire control, navigation, missile checkout, and sonar subsystems. Each training facility consists of an integrated family of system and unit laboratories that interface with a central stimulation complex to provide complete and realistic training for replacement and off crew personnel, both officer and enlisted, as required for manning of SSBNs and shore facilities. Funding in all years is budgeted to procure training unique equipment required as the result of alterations to SWS tactical equipment. The FY 2003 request also provides for updates to Training Stimulation System COTS hardware at the TRIDENT Training Facility (TTF), Kings Bay, and at TTF, Bangor; procurement of hardware for Electronic Classrooms at both TTFs; and procurement of Launcher System Control Group (LSCG) equipment for TTF, Bangor. Amounts included in this P-1 line for training are as follows:

	FY 2001	FY 2002	FY 2003
Training Support Equipment	\$4,338	\$3,558	\$13,406

TRIDENT II (D5) BACKFIT

Beginning in FY 2000, four 726-Class TRIDENT I (C4) submarines will be backfitted to TRIDENT II (D5) configuration during their regularly scheduled overhauls. OPN funding supports procurement of TRIDENT II (D5) weapons system equipment required to replace C4 equipment aboard the first two designated D5 Backfit submarines (SSBNs 732 and 733) during their planned Engineered Overhauls. (The second two Backfit hulls (SSBNs 730 and 731) will undergo their D5 modernization during concurrent Refueling Overhauls and are therefore being financed with SCN funds beginning in FY 2002.)

	FY 2001	FY 2002	FY 2003
TRIDENT II (D5) Backfit	\$117.900	\$25,300	\$10,300

NOTE: (U) Defense Emergency Response Funding (DERF)/Cost of War (COW): FY03 funding in the amount of \$4.0M procures initial increment of Electronic Security/Access Control Equipment for waterfront areas at TRIDENT Submarine Bases in Bangor, WA and Kings Bay, GA.

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P-1 SHOPPING LIST ITEM NO. PAGE NO. 109 3 **EXHIBIT P-40 BUDGET JUSTIFICATION SHEET**

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WEAPON SYSTEM	/I COST A	NALYSIS				DATE:	
EXHIBIT (P-5) PROGRA	AM COST	BREAKDO	WN			Feb	ruary 2002
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOME	NCLA	TURE/SUBHEAD			
OPN BA-4: ORDNANCE SUPPORT EQUIPMEN	IT	STRA	TEG	IC MISSILE S	STEMS	EQUIPM	IENT/34U9
		TC	TAL	COST IN THO	USAND	S OF DO	LLARS
WEAPON SYSTEM	ldent.	FY 01 T	otal	FY 02 Tota	I FY 03	Total	
COST ELEMENTS	Code	Qty (Cost	Qty Cos	t Qty	Cost	
Other Material Support		13	3,200	19,40	0	13,700	
Alterations		29	,500	78,70	0	37,600	
Training Support Equipment		4	,338	3,55	8	13,406	
TRIDENT II Backfit		117	,900	25,30	0	10,300	
Total		164	,938	126,958	3	75,006	

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		E	BUDGET ITE	M JUSTIFICA P-	ATION SHEE 40	T			DATE: Februa	ry 2002	
APPROPRIATION/BL	JDGET ACTIVIT	Υ					P-1 ITEM NOM	ENCLATURE			
OTHER PROCUR	EMENT, NA	VY/BA-4	Ordnance S	Support Equi	pment		SSN Comba	t Control Sy	stem BLI: 5	42000 SBHD	: H4VB
Program Element for	Code B Items:						Other Related I	Program Elemer	nts		
	Prior Years	ID Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY											
COST (In Millions) SPARES COST (In Millions)			\$19.4	\$40.4	\$46.3	\$59.8	\$72.0	\$66.8	\$84.1	CONT.	CONT.

INSERVICE ENGINEERING CHANGES (VB011)

Provides for the procurement of Engineering Changes (EC) and Ordnance Alterations (ORDALT) to correct fleet reported problems with Combat Control System software and hardware.; Reliability, Maintainability, and Availability (RM&A) deficiencies, and Safety issues associated with in-service SSN/SSBN Combat Control System components and interface Equipments, interfacing systems and peripheral or special equipment.

The MK 2 Technical Refresh program will provide for periodic upgrade to the MK 2 Block 1C system to incorporate changes to the COTS hardware and software required to maintain technical and logistics currency.

CCS OBSOLETE EQUIPMENT REPLACEMENT (OER) PROGRAM (VB034)

Provides for procurement of new software and hardware to satisfy OPNAV operational requirements to upgrade the current Combat control Systems on SSN submarines. The intent is to standardize capabilities and hardware configurations across all platfoms.

The MK 2 Block 1C program will replace obsolete and unreliable equipment and will achieve optimum commonality among submarine combat systems by incorporating new commercial based processors to replace the existing MIL SPEC hardware; replacing the obsolete input/output device with a new, more reliable keyboard printer; adding a parallel processor for Over The Horizon Targeting and adding new Common Display Consoles to replace obsolete MK 81 Weapon Control Consoles. Additionally, the new Tactical Weapons Simulator replaces both the Mk 75 Digital Missile Simulator and the Mk 22 Weapon Simulator, saving space and weight, while improving reliability and logistics support.

The AN/BSG-1 program will provide a standalone system for interfacing the Combat Control System on all platforms with the nuclear TOMAHAWK missile.

The TOMAHAWK Breakout Box provides electrical access to the vertical launch system. This facilitates the insertion of simulation signals for the end-to-end calibration, testing and training.

The Tactical Weapons Simulator Upgrade expands the capability of the hardware to allow test of all weapon launchers at the same time.

The MK 2 Block 2 program will upgrade the Weapons Launching hardware and software.

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		February 2002
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-4 Ordnance Support Equipment	SSN Combat Control Sys	stem BLI: 542000 SBHD: H4VB

PRODUCTION SUPPORT (VB033)

This account (VB033) procures technical data, mock-ups, demonstrations and testing products directly for the SSN Combat System Obsolete Equipment Replacement (OER) program. Also procured are services required to support production engineering, quality assurance, product improvement and acceptance testing for production line items. Technical on-site support at shipyards and depots for hardware related problems is also included.

LOGISTIC SUPPORT REQUIREMENTS (VB983)

This account (VB900) procures integrated logistics products directly for the SSN Combat System Obsolete Equipment Replacement (OER) program. Also procured are logistics engineering services which perform essential documentation updates related to major hardware revisions.

INITIAL TRAINING (VB995)

This account funds the initial factory training (including both training deliverables and instructional services) for CCS hardware and software changes and upgrades implemented through the CCS OBSOLETE EQUIPMENT REPLACEMENT (OER) PROGRAM (VB034) and INSERVICE ENGINEERING CHANGES (VB011) lines.

CONSULTING SERVICES (VB900)

This account provides assistance for asset management, cost analyses, ORDALT planning, preparation of contract specifications, monitoring of contract deliverables, prime contractor cost, schedule and performance monitoring, ILS planning and GFI coordination.

EQUIPMENT INSTALLATION (VB5NS)

Funds are for the installation of Combat Control System equipments included in the Fleet Modernization Program.

NON-FMP INSTALLATION (VB6NS)

Funds are for the installation of Combat Control System equipments not included in the Fleet Modernization Program.

OTHER INFORMATION

Developmental efforts are funded by Program Element 64562N within the SSN Combat Control System Improvement Program F0236.

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WEAPON P-5	S SYSTEM COST ANALYSIS					Weapon Sy	rstem							Feb 2002	
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy rdnance Support Equipment					ID Code		OMENCLATUR			542000 SB	PUD. HAVE			
BA-4 UI	dnance Support Equipment		TOTAL COS	T IN THOUS	SANDS OF DOL	LARS	33N CON	MBAT CONT	KUL STSI	EW BLI:	342000 36	<u>лр: п4VБ</u>			
COST	ELEMENT OF COST	ID	Prior	T				FY 2001			FY 2002			FY 2003	
CODE		Code	Years	0	Lucio	T = 1 + 0 - 1	0		Titlout	0		L Total Cont	0		T. () O . ()
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	N87 SUBMARINES														
VB011	IN-SERVICE ENG CHANGES	А							1,942			4,314			643
	ECP/Auxiliary Equipment								1,025			833			643
	CCS MK2 Technical Refresh								917			3,481			
VB034	CCS OER PROGRAM MODS							2,036	6,108			19,595			25,074
	CCS MK2 Block 1C Baseline Upgrade Kits	В													
	CCS MK2 Block 1C ECP4 Upgrade Kits	В					3	2,036	6,108	11	1,597	17,565	12	1,626	19,512
	AN/BSG-1 PLS	В											13	212	2,757
	TMHWK Break Box	Α								5	406	2,030	7	401	2,805
	CCS MK2 Block 2 Upgrade Kits	В													
VB033	PRODUCTION SUPPORT								1,261			1,281			621
VB900	CONSULTING SERVICES								598			1,009			258
VB983	LOGISTICS SUPPORT								1,040			1,061			677
VB995	INITIAL TRAINING								669			608			489
	MATERIAL TOTAL								11,618			27,868			27,762
VB5NS	EQUIP INSTALLATION (FMP)								5,716			10,821			14,168
VB6NS	NON-FMP EQUIP INSTALLATION								2,060			1,666			4,389
	1	1							19,394			40,355			46,319

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WEAPO P-5	NS SYSTEM COST ANALYSIS						Weapon Sy	rstem							Date: Febr	uary 2002	
APPRO Other	PRIATION/BUDGET ACTIVITY Procurement, Navy Ordnance Support Equipment	_					ID Code			ATURE/SUBH		BLI: 542	000 SBHD	: H4VB			
COST	ELEMENT OF COST		FY 2004			FY 2005			FY 2006			FY 2007		То	Complete	<u> </u>	Total
CODE		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
VB011	IN-SERVICE ENG CHANGES ECP/Auxiliary Equipment CCS MK2 Technical Refresh			576 576			8,348 460 7,888			20,754 469 20,285			12,855 479 12,376				
VB034	CCS OER PROGRAM MODS CCS MK2 Block 1C Baseline Upgrade Kits CCS MK2 Block 1C ECP4 Upgrade Kits AN/BSG-1 PLS	16	1,662	29,014 26,592	14	1,683	28,064 23,562			10,674			28,876				
	TMHWK Break Box CCS MK2 Block 2 Upgrade Kits	6	404	2,422	11	409	4,502	7	1,525	10,674	15	1,925	28,876				
VB033	PRODUCTION SUPPORT			1,035			1,116			1,113			1,205				
VB900	CONSULTING SERVICES			263			267			273			278				
VB983	LOGISTICS SUPPORT			304			326			348			371				
VB995	INITIAL TRAINING			756			102			875			506				
	MATERIAL TOTAL			31,948			38,223			34,037			44,091				
VB5NS	EQUIP INSTALLATION (FMP)			20,455			25,968			25,898			33,252				
VB6NS	NON-PMP EQUIP INSTALLATION			7,438			7,801			6,818			6,767				
				59,841			71,992 P-1 SHO			66,753			84,110				

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CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) Weapon System A. DATE February 2002 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD Other Procurement, Navy **BA-4 Ordnance Support Equipment** SSN Combat Control System BLI: 542000 H4VB CONTRACT DATE OF SPECS DATE Cost Element/ QUANTITY UNIT LOCATION RFP ISSUE METHOD CONTRACTOR AWARD FIRST AVAILABLE **REVISIONS** FISCAL YEAR COST & TYPE AND LOCATION DATE **DELIVERY** AVAILABLE OF PCO DATE NOW (000) CCS MK2 OER Portsmouth, RI BLOCK 1C ECP4 3 \$1,516 NAVSEA WR/RC **NUWC Newport RI** 12/00 06/02 YES **PROGENY** YES UPGRADES (FY01) 3 \$520 NAVSEA SS/CPFF 5/01 06/02 Manassas, VA BLOCK 1C ECP4 11 \$1,347 NAVSEA SS/FP LOCKHEED MARTIN, 12/01 12/02 YFS UPGRADES (FY02) NE&SS SS/FP 11 \$250 NAVSEA PROGENY, Manassas Va 12/01 12/02 YES BREAKOUT BOX 5 \$406 NUWC NEWPORT 10//2001 C/FP RAYTHEON Technical 01/02 07/02 Nο (FY02) Services

D. REMARKS

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ITEM NO. 110 PAGE NO. 4 UNCLASSIFIED

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) Weapon System A. Date: February 2002 SUBHEAD B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE Other Procurement, Navy **BA-4 Ordnance Support Equipment** SSN Combat Control System BLI: 542000 H4VB CONTRACT DATE OF SPECS DATE QUANTITY UNIT METHOD AVAILABLE Cost Element/ LOCATION RFP ISSUE CONTRACTOR **AWARD** FIRST **REVISIONS** FISCAL YEAR COST OF PCO DATE & TYPE AND LOCATION **DELIVERY** AVAILABLE DATE NOW (000)CCS MK2 OER BLOCK 1C ECP4 12 \$1,374 NAVSEA SS/FP LOCKHEED MARTIN, 12/02 12/03 YES UPGRADES (FY03) NE&SS PROGENY Manassas, VA 12 \$252 NAVSEA SS/FP 12/02 12/03 YES **BREAKOUT BOX** \$401 NUWC NEWPORT C/FP TBD 01/03 07/03 Nο (FY03) C/FFP 13 \$212 NAVSEA TBD 06/03 06/04 No (FY03)

D. REMARKS

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87 **UNCLASSIFIED**

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CLASSIFICATION:	UNCLASSIFIED	•

P3A	INDIVIDUAL MODIFICATION				
	CS MK2 to Block 1C Baseline	TYPE MODIFICATION:	UPGRADE	MODIFICATION TITLE:	SSN COMBAT CONTROL SYSTEMS

DESCRIPTION/JUSTIFICATION:

This program replaces obsolete equipment and will achieve optimum commonality among submarine combat systems while maximizing the use of commercial electronics and NDI products. Use of Commercial Off-The-Shelf (COTS) hardware provides a common cost of upgrade without concern for current configuration.

DEVELOPMENT STATUS/MAJOR DEVELO	PMEN	NT MILESTO	NES:		MILE	STONE	II 05/	96; TEC	HEVAL	_ 2/00; O	PEVA	L 5/00; I	MILES	TONE II	I 10/0	0	_					
	FY 2	000 & Prior		\$		<u>′ 2001</u> \$		<u>′ 2002</u> \$	<u>FY</u> QTY	<u>2003</u>		<u>/ 2004</u> \$	<u>FY</u> QTY	<u>′ 2005</u> \$		<u>′ 2006</u> \$	<u>FY</u> QTY	<u>′ 2007</u> \$	QTY	TC \$	<u>TO</u> QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)				•		•										•		<u> </u>		Ψ		
RDT&E																					0	\$0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	\$0.0
INSTALLATION KITS - UNIT COST																					0	\$0.0
INSTALLATION KITS NONRECURRING																					0	\$0.0
EQUIPMENT	14	\$33.9																			#VALUE!	#VALUE!
EQUIPMENT NONRECURRING																					0	\$0.0
ENGINEERING CHANGE ORDERS																					0	\$0.0
DATA																					0	\$0.0
TRAINING EQUIPMENT	2	\$2.8																			2	\$2.8
SUPPORT EQUIPMENT																					0	\$0.0
CCS TEST FACILITY UPGRADE																					0	\$0.0
OTHER (NON-FMP INSTALL)						\$2.1		\$1.3													0	\$3.3
OTHER		2.2																			0	#VALUE!
INTERIM CONTRACTOR SUPPORT																					0	\$0.0
INSTALL COST	9	\$16.0			5	\$5.7	4	\$5.7													#VALUE!	\$20.9
TOTAL PROCUREMENT	16	\$38.9			0	\$2.1	0	\$1.3 ITEM	0	\$0.0	0 AGE	\$0.0	0	\$0.0	0	\$0.0	0	\$0.0	0	\$0.0	16 ION: UNCL	#VALUE!

ITEM 110

CLASSIFICATION: UNC	CLAS	SIFIED																												
P3A (Continued)				INDI	VIDU	AL M	IODIF	ICAT	ION (Conti	nued)																		
MODELS OF SYSTEMS	AFF	ECTED:		CC	S MK2	2 to E	Block 1	IC Ba	aselin	е					MOI	DIFIC	ATIO	N TIT	LE: _	SSN	COM	BAT (CONT	ROL	SYST	EMS				
INSTALLATION INFORI METHOD OF IMPLEME ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	NTAT DTIM FY	ΓΙΟΝ:	N/A	A		- - -	FY 2	002:	TION N/A N/A		TIME	Ē: <u>.</u>	18 - :	24	Mon	ths		<u>-</u> 2003: 2003:												
0 1	<u> </u>		1			_	24.000			1/ 000/	_			Milli		24.000			7/ 000	_		14 000	•		1/ 000	-	I - 0		1	.
Cost:	Qty	or Years \$				Qty	Y 200 \$		Qty	Y 2002 \$		Qty	Y 200 \$		Qty	Y 200) <u>4</u> }	Qty	Y 200 \$		Qty	Y 200 \$		Qty	Y 200		Qty	omplete \$	Qty	Total \$
PRIOR YEARS	5	,				5	*	\$5.7	Δ.,	Ψ		Δ.,	<u> </u>		Δ.,		<u>-</u>	<u></u>	•			*			,		ς.,		###	####
FY 2000 EQUIPMENT								, -	4		\$5.7																		4	\$5.7
FY 2001 EQUIPMENT																													0	\$0.0
FY 2002 EQUIPMENT																													0	\$0.0
FY 2003 EQUIPMENT																													0	\$0.0
FY 2004 EQUIPMENT																													0	\$0.0
FY 2005 EQUIPMENT																													0	\$0.0
FY 2006 EQUIPMENT																													0	\$0.0
FY 2007 EQUIPMENT																													0	\$0.0
TO COMPLETE																														
INSTALLATION SCH	EDUI	LE:																												
FY 2000		FY	2001			FY 2	2002			FY 2	2003			FY 2	2004			FY	2005			FY 2	2006			FY 2	2007		<u>TC</u>	
& Prior	_		3	4	1	2	3	4	1	2	3	4	1_	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
ln 5			1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Out 5	<u>]</u>	1 1	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
							I ⁻	TEM	110			PΔC	SE 7										CI AS	SSIFI	CATIO	P-3A		ASSIFII	FD	

CLASSIFICATION:	UNCLASSIFIED
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P3A	INDIVIDUAL MODIFICATION	N				
MODELS OF SYSTEM AFFECTED:	CCS to Mk2 Block 1C ECP4	TYPE MODIFICATION:	UPGRADE	MODIFICATION TITLE:	SSN COMBAT CONTROL SYSTEMS	
DECODIDE ON A HOTIE OF THOM						

DESCRIPTION/JUSTIFICATION:

Through introduction of common COTS hardware, upgrade all SSN Combat Control Systems to a common baseline which includes TACTOM capability.

DEVELOPMENT STATUS/MAJOR DEVELO	PMEN	NT MILESTO	NES:		MILE	STONE	II 12/	00; TECI	IEVAL	_/OPEVA	L 11/0)2; MILE	STON	IE III 01/	03							
	FY 2	000 & Prior \$				<u>′ 2001</u> \$		<u>/ 2002</u> \$	<u>FY</u> QTY	<u>′ 2003</u> \$		2004 \$		<u>′ 2005</u> \$		<u>′ 2006</u> \$	<u>FY</u> QTY	2007 \$	QTY	<u>TC</u> \$	TC QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)		Ť				•		•				•		•		•		*		·		
RDT&E																					0	\$0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	\$0.0
INSTALLATION KITS - UNIT COST																					0	\$0.0
INSTALLATION KITS NONRECURRING																					0	\$0.0
EQUIPMENT					3	\$6.1	9	\$14.4	11	\$18.0	13	\$21.6	14	\$23.6							50	\$83.7
EQUIPMENT NONRECURRING																					0	\$0.0
ENGINEERING CHANGE ORDERS																					0	\$0.0
DATA																					0	\$0.0
TRAINING EQUIPMENT							2	\$3.2	1	\$1.5	3	\$5.0									6	\$9.7
SUPPORT EQUIPMENT																					0	\$0.0
OTHER (NON-FMP INSTALL)								\$0.4		\$4.4		\$7.4		\$7.8		\$6.8					0	\$26.9
OTHER																					0	\$0.0
OTHER								\$2.0		\$1.4		\$1.4		\$1.8							0	\$6.6
INTERIM CONTRACTOR SUPPORT																					0	\$0.0
INSTALL COST							1	\$1.5	11	\$11.7	11	\$12.8	13	\$15.5	14	\$15.8					50	\$57.3
TOTAL PROCUREMENT	0	\$0.0	0	\$0.0	3	\$6.1	11	\$20.0	12	\$25.3	16	\$35.4	14	\$33.2	0	\$6.8	0	\$0.0	0	\$0.0	56	\$126.7

CLASSIFICA		LAS	SIFIED																												
P3A (Continue	ed)				INDI	VIDU	AL N	IODIF	ICAT	TION (Conti	nued	I)																		
MODELS OF	SYSTEMS	AFF	ECTED:	-	CCS	S to M	/lk2 B	slock 1	C E	CP4						MOI	DIFIC	ATIOI	N TIT	LE: _	SSN C	OMB	AT CO	NTR	OL S	YSTE	MS				
INSTALLATION METHOD OF	-		-	AIT	-																										
ADMINISTRA							_	PRC	DUC	CTION	LEAD	тімі	E:	12		Mon	nths														
CONTRACT [2001:	De	c-00		_	FY 2	2002:	Dec	-01							FY 2	2003:	Dec	-02				_						
DELIVERY DA	ATE:	FY	2001:	Jur	า-02		_	FY 2	2002:	Dec	: 02							FY 2	2003:	Dec	-03				•						
															n Mill																
Cost	t:		or Years	ļ.,				Y 200			Y 200			Y 200			Y 200			Y 20			Y 200			Y 200			omplete		Total
		Qty	\$				Qty	\$	5	Qty	\$		Qty	9	5	Qty	,	\$	Qty		\$	Qty	\$		Qty	\$	<u>i</u>	Qty	\$	Qty	\$
PRIOR YEAI	RS																													0	\$0.0
FY 2000 EQ	UIPMENT																									<u> </u>				0	\$0.0
FY 2001 EQ	UIPMENT									1	\$1	.5	2	\$2	2.1											<u> </u>				3	\$3.6
FY 2002 EQ	UIPMENT												9	\$9	9.6											<u> </u>				9	\$9.6
FY 2003 EQ	UIPMENT															11	\$1	2.8								<u> </u>				11	\$12.8
FY 2004 EQ	UIPMENT																		13	\$1	5.5					<u> </u>				13	\$15.5
FY 2005 EQ	UIPMENT																					14	\$15	5.8		<u> </u>				14	\$15.8
FY 2006 EQ	UIPMENT																									\$0	0.0			0	\$0.0
FY 2007 EQ	UIPMENT																									<u></u>				0	\$0.0
TO COMPLE	ETE																														
INSTALLA	TION SCH	EDUI	L <u>E:</u>			-																									
	FY 2000		FY 2	<u> 2001</u>			FY:	2002			FY 2	2003			FY 2	2004			FY	2005			<u>FY 2</u>	2006			FY 2	<u> 2007</u>		<u>TC</u>	
	& Prior		1 2	3		1	2	3	4	1	2	3	4	1	2	3	4	1	_2	3	4	1_	2	3	4	1	_2	_3_	4		TOTAL
In	0		0 0	0	0	0	0	1	0	2	3	3	3	1	3	3	4	1	4	4	4	1	4	4	5	0	0	0	0	0	50
Out	0		0 0	0	0	0	0	1	0	1	4	3	3	1	3	3	4	1	4	4	4	1	4	4	5	0	0	0	0	0	50
																											P-3A	4			

ITEM 110 PAGE 9 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED

P3A	INDIVIDUAL MODIFICATION				
MODELS OF SYSTEM AFFECTED:	AN/BSG-1 Weapon Launching System TYPE MODIFICATION:	UPGRADE	MODIFICATION TITLE:	SSN COMBAT CONTROL SYSTEMS	

DESCRIPTION/JUSTIFICATION:

This program provides a cost-effective, timely approach to meeting TLAM-N regeneration requirements and a common launcher interface across all attack submarines maximizing capabilities while minimizing operation, training and supportability costs.

PMEN	IT MILESTO	NES:		MILE	STONE	II 05/9	7; SDC	T 08/02	; MILES	TONE	III 01/0	4				_					
FY 20	000 & Prior			<u>F</u> Y	<u>/ 2001</u>	<u>F</u> Y	2002	<u>F</u> Y	2003	<u>F</u> ۱	<u>/ 2004</u>	<u>F</u> Y	2005	<u>F</u> Y	2006	<u>F</u> Y	2007		<u>TC</u>	ŢO	TAL
QTY	\$			QTY	\$	QTY	\$	QTY	\$			QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
								13	\$2.8											13	\$2.8
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
																				0	\$0.0
										10	\$0.9	22	\$1.9	15	\$1.4					47	\$4.2
0	\$0.0	0	\$0.0	0	\$0.0	0	\$0.0	13	\$2.8	0	\$0.0	0	\$0.0	0	\$0.0	0	\$0.0	0	\$0.0	13	\$2.8
	FY 2 QTY	FY 2000 & Prior QTY \$	FY 2000 & Prior QTY \$	QTY \$	FY 2000 & Prior QTY \$ QTY	FY 2000 & Prior QTY \$ QTY \$	FY 2000 & Prior QTY \$ QTY \$ QTY	FY 2000 & Prior QTY \$ QTY \$ QTY \$	FY 2000 & Prior QTY \$ QTY \$ QTY \$ QTY \$ 13	FY 2000 & Prior QTY \$ QT	FY 2000 & Prior QTY \$ QT	FY 2000 & Prior QTY \$ QT	FY 2000 & Prior QTY EY 2001 FY 2002 FY 2003 FY 2004 QTY <	FY 2000 & Prior QTY \$ QT	FY 2000 & Prior QTY \$ QT	FY 2000 & Prior FY 2001 FY 2002 FY 2003 FY 2004 GTY \$ QTY \$ QTY	FY 2000 & Prior QTY \$ QT	FY 2000 & Prior QTY \$ QT	FY 2000 & Prior OTY \$ OTT \$ OT	FY 2001 & Prior FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 TC	FY 2000 8 Prior OTY \$ QTY \$ QT

CLASSIFICAT		LAS	SIFIE	D																												
P3A (Continue	ed)				ı	NDI	VIDU	AL N	IODIF	ICAT	ION (Conti	inued	1)																		
MODELS OF	SYSTEMS	AFFI	ECTE	D:	_	AN/	BSG-	1 WE	APO	N LA	UNC	HING :	SYST	YEM	(WLS)	MOI	DIFIC	ATIO	N TIT	LE: _	SSN	СОМ	BAT C	ONTI	ROL	SYST	EMS				
INSTALLATIO																																
METHOD OF ADMINISTRA				_				-	DDC	אחוכ	TION	LEAD	TIME	=.	12		Mon	othe														
CONTRACT				:				-	FY 2	002:	, I IOIN	LLAL	וואוווכ		12		IVIOI		FY 2	2003:												
DELIVERY DA	ATE:	FY	2001	: -				-	FY 2	002:									FY 2	2003:												
				_																												
		<u> </u>							7/ 000					_		in Mill		7/ 00/						\			1/ 000	_	- -			T
Cos	t:	Qty	r Yea \$	rs	-			Qty	Y 200		Qty	Y 200		Qty	Y 200		Qty	Y 200) <u>4 </u>	Qty	Y 200		Qty	Y 2006 \$	_	Qty	Y 200 \$		Qty	omplete \$	Qty	Total \$
		Qty	Ψ					Qty	Ψ)	Qty	7	Þ	Qty	4	,	Qty	,	Ψ	Qty	,	þ	Qty	Ψ		Qty	Ψ)	Qty	Ψ	Qty	φ
PRIOR YEA	RS																														0	\$0.0
FY 2000 EQ	UIPMENT																														0	\$0.0
FY 2001 EQ	UIPMENT																														0	\$0.0
FY 2002 EQ	UIPMENT																														0	\$0.0
FY 2003 EQ	UIPMENT																														0	\$0.0
FY 2004 EQ	UIPMENT																														0	\$0.0
FY 2005 EQ	UIPMENT																														0	\$0.0
FY 2006 EQ	UIPMENT																														0	\$0.0
FY 2007 EQ	UIPMENT																														0	\$0.0
TO COMPLE	ETE																															
INSTALLA ⁻	TION SCHI	EDUL	.E:																													
	FY 2000		<u> </u>	Y 2	001			FY:	2002			FY 2	2003			FY 2	2004			FY:	2005			FY 2	006			FY 2	2007		<u>TC</u>	
	& Prior		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
` In	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																												D 24				

P-3A
ITEM 110 PAGE 11 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED
D3V	•

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

P3A	INDIVIDUAL MODIFICATIO	N			
MODELS OF SYSTEM AFFECTED:	BREAKOUT BOX	TYPE MODIFICATION:	UPGRADE	MODIFICATION TITLE:	SSN COMBAT CONTROL SYSTEMS
DESCRIPTION/JUSTIFICATION:					
The TOMAHAWK Breakout Box provides	electrical access to the vertical launc	h system. This facilitates the	nsertion of simulation signal	s for end-to-end calibration an	d test.
Note: 4 units procured in FY00 using fun	ds from a different BLI. The 4 shipset	ts are installed under this BLI f	or a total quantity of 31.		

	<u>FY 2</u>	000 & Prior \$			<u>FY</u> QTY	<u>′ 2001</u> \$		<u>Y 2002</u> \$	<u>FY</u> QTY	<u>′ 2003</u> \$	<u>F\</u> QTY	<u>/ 2004</u> \$	<u>F`</u> QTY	<u>/ 2005</u> \$		<u>2006</u>	<u>FY</u> QTY	<u>2007</u>	QTY	<u>TC</u> \$	<u>TO'</u> QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)		5			QII	Φ	QII	Φ	QII	Φ	QII	Φ	QIT	Φ	QII	Φ	QII	Φ	QII	Φ	QII	Ţ.
RDT&E																					0	\$0.0
<u>PROCUREMENT</u>																					0	\$0.0
INSTALLATION KITS																					0	\$0.0
INSTALLATION KITS - UNIT COST																					0	\$0.0
INSTALLATION KITS NONRECURRING																					0	\$0.0
EQUIPMENT							5	\$2.0	7	\$2.8	6	\$2.4	11	\$4.5							29	\$11.8
EQUIPMENT NONRECURRING																					0	\$0.0
ENGINEERING CHANGE ORDERS																					0	\$0.0
DATA																					0	\$0.0
TRAINING EQUIPMENT																					0	\$0.0
SUPPORT EQUIPMENT																					0	\$0.0
OTHER																					0	\$0.0
OTHER																					0	\$0.0
OTHER																					0	\$0.0
INTERIM CONTRACTOR SUPPORT																					0	\$0.0
INSTALL COST							6	\$1.6	4	\$1.0	3	\$1.0	13	\$3.9	5	\$1.5					31	\$7.5
TOTAL PROCUREMENT	0	\$0.0	0	\$0.0	0	\$0.0	5	\$2.0	7	\$2.8	6	\$2.4	11	\$4.5	0	\$0.0	0	\$0.0	0	\$0.0	29	\$11.8

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNC	CLAS	SIFIED																										
P3A (Continued)				INDI	VIDU	AL N	IODIFIC	ATIC) NC	Continued	l)																	
MODELS OF SYSTEMS	AFF	ECTED	:	BRE	EAKO	UT E	30X						_	МО	DIFIC	IOITA	N TIT	LE: S	SN	СОМ	BAT CONT	ROL	SYST	EMS				
INSTALLATION INFORI METHOD OF IMPLEME			AIT	-																								
ADMINISTRATIVE LEAI						-	PRODU	UCT	ION	LEADTIM	≣:		6	Мо	nths													
CONTRACT DATES:		2001:	N/A			-	FY 200						_					N/A										
DELIVERY DATE:	FY	2001:	N/A	4		_	FY 200)2: _	Jul-()2			-			FY 2	003:	N/A				-						
												(\$	in Mill	lions)														
Cost:	_	r Years					Y 2001			Y 2002		FY 20	003		FY 200			Y 2005			Y 2006		Y 200			omplete		Total
	Qty	\$				Qty	\$	(Qty	\$	Qty		\$	Qty	\$	5	Qty	\$		Qty	\$	Qty		5	Qty	\$	Qty	\$
PRIOR YEARS																											0	\$0.0
FY 2000 EQUIPMENT									4	1.1																	4	\$1.1
FY 2001 EQUIPMENT																											0	\$0.0
FY 2002 EQUIPMENT									2	\$0.5	3		\$0.8														5	\$1.3
FY 2003 EQUIPMENT											1		\$0.3	3		\$1.0	1	(0.3								5	\$1.6
FY 2004 EQUIPMENT																	6	\$	1.8								6	\$1.8
FY 2005 EQUIPMENT																	6	\$	1.8	5	\$1.5						11	\$3.3
FY 2006 EQUIPMENT																											0	\$0.0
FY 2007 EQUIPMENT																											0	\$0.0
TO COMPLETE																												
INSTALLATION SCH	EDUL	.E:																										
FY 2000		FY	2001			FY	2002			FY 2003			FY 2	2004			FY	2005			FY 2006			FY 2	2007		TC	
& Prior		1 2	3	4	1	2	3 4	4	1	2 3	4	1	2	3	4	1	2	3	4	1	2 3	4	1	2	3	4		TOTAL
` In 0		0 0	0	0	0	0	4 2	2	1	1 1	1	1	1	1	0	2	4	4	3	1	2 2	0	0	0	0	0	0	31
Out 0		0 0	0	0	0	0	4 2	2	1	1 1	1	1	1	1	0	2	4	4	3	1	2 2	0	0	0	0	0	0	31
																								P-3A				

ITEM 110 PAGE 13 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED					
P3A		INDIVIDUAL MODIFICAT	ION			
MODELS OF SYSTE	M AFFECTED:	MK2 BLOCK 2	TYPE MODIFICATION:	UPGRADE	MODIFICATION TITLE:	SSN COMBAT CONTROL SYSTEMS
DESCRIPTION/JUST	TFICATION:					
This program will pro	ovide upgrades for wear	oon launching hardware and softw	ware.			
DEVELOPMENT STA	ATUS/MAJOR DEVELO	PMENT MILESTONES:	MILESTONE III 07/05; CONTRA	CT AWARD 12/05		

							,									_					
		FY 2000 & Prior QTY \$ (<u>Y 2001</u> ' \$		Y 2002 ′ \$	<u>FY</u> QTY	<u>2003</u>	<u>F\</u> QTY	<u>/ 2004</u> \$		<u>2005</u> \$	<u>FY</u> QTY	<u>2006</u> \$		<u>/ 2007</u> \$	OTV	<u>TC</u> \$	<u>TO</u> QTY	TAL
FINANCIAL PLAN (IN MILLIONS)	QIY	3		QTY	D	QTY	D	QIY	D	QIY	\$	QTY	Φ	QIY	D	QIY	\$	QTY		QIY	\$
<u>RDT&E</u>																				0	\$0.0
<u>PROCUREMENT</u>																				0	\$0.0
INSTALLATION KITS																				0	\$0.0
INSTALLATION KITS - UNIT COST																				0	\$0.0
INSTALLATION KITS NONRECURRING																				0	\$0.0
EQUIPMENT														7	\$10.7	15	\$28.9	28	\$57.1	50	\$96.7
EQUIPMENT NONRECURRING																				0	\$0.0
ENGINEERING CHANGE ORDERS																				0	\$0.0
DATA																				0	\$0.0
TRAINING EQUIPMENT																				0	\$0.0
SUPPORT EQUIPMENT																				0	\$0.0
OTHER (NON-FMP INSTALL)																	\$3.5		\$12.4	0	\$15.9
OTHER																				0	\$0.0
OTHER															\$1.4		\$2.1		\$1.4	0	\$4.9
INTERIM CONTRACTOR SUPPORT																				0	\$0.0
INSTALL COST																7	\$14.1	43	\$62.3	50	\$76.4
TOTAL PROCUREMENT	0	\$0.0		0	\$0.0	0	\$0.0	0	\$0.0	0	\$0.0	0	\$0.0	7	\$12.1	15	\$34.5	28	\$70.9	50	\$117.5

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATI	ON: UNC	LAS	SIFIED																										
P3A (Continue	d)			IN	DIVI	IDUA	LM	ODIFIC	CATI	ON (Conti	nued)																	
MODELS OF S	SYSTEMS	AFFE	CTED:	N	1K2 I	BLO	CK 2									MOI	DIFIC	ATIO	N TITI	LE: SS	N COM	BAT C	ONTI	ROL	SYSTEMS				
INSTALLATION METHOD OF I	MPLEMEN	TAT	ION:																										
ADMINISTRAT								PRO	DUC.	TION	LEAD	TIME	:		12	Mon	iths		_										
CONTRACT D								FY 20 FY 20	002:									FY 2	2003:										
DELIVERY DA	IE:	FΥ	2001:				-	FY 20)02:									FY2	2003:										
															(\$ in !	Million	s)												
Cost:			Years					Y 200′			Y 200			Y 200			Y 200			Y 2005		Y 2006			FY 2007		Complete		Γotal
		Qty	\$				Qty	\$		Qty		B	Qty		5	Qty	-	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$
PRIOR YEAR	S																											0	\$0.0
FY 2000 EQU	IIPMENT																											0	\$0.0
FY 2001 EQU																												0	\$0.0
FY 2002 EQU	IIPMENT																											0	\$0.0
FY 2003 EQU	IIPMENT																											0	\$0.0
FY 2004 EQU	IIPMENT																											0	\$0.0
FY 2005 EQU	IIPMENT																											0	\$0.0
FY 2006 EQU	IIPMENT																							7	9.1			7	\$9.1
FY 2007 EQU	IIPMENT																									15	\$21.5	15	\$21.5
TO COMPLE	TE																									28	\$40.8	28	\$40.8
INSTALLAT	ION SCHE	DUL	E:																										
l l	FY 2000		FY	2001			FY 2	2002			FY:	2003			FY 2	2004			FY 2	2005		FY 2	006		F	2007		TC	
	& Prior			3 4	4				4	1			4	1	2	3	4	1		3 4	1	2	3	4		2 3			TOTAL
` In	0		0 0	0 (o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 () 1	1	48	50
Out	0		0 0	0 (<u> </u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 () 1	1	48	50
																									D	-3A			

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CLASSIFICATION: UNCLASSIFIED

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_		В	SUDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:			
				P-40						JANUA	RY 2002	
APPROPRIATION/BUD	GET ACTIVIT	Υ					P-1 ITEM NOM	ENCLATURE				
OTHER PROCURE	MENT, NA	VY/BA-4	Ordnance S	Support Equi	pment		SUBMARINE AS	W SUPPORT E	QUIPMENT BL1: 5	43100 SBHD: 8	346A	
Program Element for Co	ode B Items:						Other Related F	Program Elemei	nts			
	Prior	ID									То	
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY	Complete	Total
QUANTITY												
COST												
(In Millions)			\$3.4	\$5.9	\$7.5	\$5.2	\$5.2	\$5.3	\$5.4			\$37.9
SPARES COST												
(In Millions)												\$0.0

PROGRAM DESCRIPTION/JUSTIFICATION:

This line item procures modifications and improvements to Attack and Ballistic Missile Submarine fire interface systems, torpedo tube system components and torpedo tube test equipment. These requirements arise as a result of the introduction of new or modified weapons and sensors and their subsequent evaluation test and operational use. Also procured are reliability, maintainability, functional and safety modifications and tactical improvements resulting from operational use experience.

This line funds modifications and improvements in the following categories:

6A002 - The Submarine Torpedo Tube Support category funds in-service support and alteration procurements for all submarine torpedo tubes ejection pumps, handling systems, and countermeasure launchers. Recurring efforts are CASREP support to the fleet units, emergency ORDALTs, Bore Gage/Test Equipment Procurement, Engineering Change Proposal support and prototype ORDALTs. ORDALTs kits are procured to correct significant deficiencies in equipment affecting personnel safety, ship safety and system performance.

6A5IN - Installing agents will be various Naval Shipyards and contractors. All installations will be on SSN 688/21 Class Submarines.

P-1 SHOPPING LIST

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CLASSIFICATION:

UNCLASSIFIED

DD Form 2454. JUN 86

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREN	IENT HIST	ORY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE	_	
								J	ANUARY 2	002
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NOM	IENCLATURE			SUBHEAD	
Other Procurement	nt, Navy									
BA-4: ORDNANCE	SUPPO	RT EQU	IPMENT		SUBMARINE A	ASW SUPPORT EQUIPME	NT BL1: 5	43100	846A	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 01										
SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	416	NAVSEA		WR	NUWC NEWPORT,RI	JAN 01	OCT 01	YES	
FY 02										
SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	425	NAVSEA		WR	NUWC NEWPORT,RI	JAN 02	OCT 02	YES	
<u>FY 03</u>										
SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	431	NAVSEA		WR	NUWC NEWPORT,RI	JAN 03	OCT 03	YES	
D. REMARKS			<u> </u>	<u> </u>		<u> </u>				

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 111 PAGE NO. 2

CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM CO P-5	OST AN	IALYSIS			Weapon Sy	stem							DATE: JANUAF	RY 2002
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy rdnance Support Equipment					ID Code		OMENCLATU			MENT BL	I: 543100	SBHD:	846A	
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS									
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2001		FY 2002			FY 2003					
OODL		Codo	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINE (N77)														
6A002	SUB TORPEDO TUBE SUPPORT	Α													
	O/A PROTOTYPE/ECP MATERIAL					414			1265			903			
	2J COG MATERIAL					227			230			233			
	TEST EQUIPMENT														
	BORE GAGE					260			270			275			
	TEST FACILITY EQUIPMENT					248			800			2702			
	MISC. TEST EQUIPMENT					250			669			728			
	TEP ORDALTs/TRIDS														
	O/A 16264 TEP QUIET 1			2	416.0	832	2	425.0	850	2	431.0	862			
	TPES FIRING VALVE														
	TOTAL EQUIPMENT					2,231			4,084			5,703			
	SUBMARINE (N77)														
6A5IN	INSTALLATION OF EQUIPMENT (FMP)				1,190			1,798			1,835				
l															
						3,421			5,882			7,538			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 111 PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED																					JANUARY 2002	
P3A		INDIVIDU	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	SUBMA	RINE ASW S	SUPPOR	RT	TYPI	E MODIF	FICATI	ON:		ORDAL	T				MOE	IFICAT	ION TI	ITLE:	SUB T		TUBE ORDALT	
DESCRIPTION/JUSTIFICATION:																						
PROJECT UNIT: ORDALT 16264 SUB	MARINE T	ORPEDO I	EJECTI	ON PU	MP Mk	5 MOD	S 15 T	HROU	3H 20 l	UPGRAD	E RE	DUCTS	THE C	DETECT	ON A	ND CLA	SSIFI	CATION	OF TH	E SSN 688	CLASS SUBMAR	INE
WEAPON LAUNCH SIGNATURE.																						
IO = 37																						
DEVELOPMENT STATUS/MAJOR DEVE	LOPMEN	T MILESTO	ONES:																			
												•										
		0 & Prior		<u>/ 2001</u>		2002		2003	_	<u> 2004</u>		2005		2006		2007		<u>FY</u>		<u>TC</u>	<u>TOTAL</u>	= .
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						

EQUIPMENT NONRECURRING 0.0 ENGINEERING CHANGE ORDERS 0.0 DATA 0.0 TRAINING EQUIPMENT 0.0 SUPPORT EQUIPMENT 0.0 OTHER 0.0 OTHER 0.0 OTHER 0.0

2

0.9

2

1.9

2

1.9

2.8

1.9

2.8

0.9

0.9

0.9

1.8

2.7

2

INSTALLATION KITS NONRECURRING

INTERIM CONTRACTOR SUPPORT

EQUIPMENT

INSTALL COST

TOTAL PROCUREMENT

23

23

6.5

12.8

19.3

0.8

2

1.8

2.7

1.2

2.0

0.9

ITEM 111 PAGE 4 CLASSIFICATION: UNCLASSIFIED

2.0

2.9

2

0.9

0.0

12.7

0.0

25.3

38.0

37

CLASSIFICATION: UNCLASSIFIED **JANUARY 2002** P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: SUBMARINE ASW MODIFICATION TITLE: SUB TORPEDO TUBE ORDALT 16264 SUPP EQUIPMENT INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 9 MONTHS CONTRACT DATES: FY 2001: Jan-01 FY 2002: Jan-02 FY 2003: Jan-03 DELIVERY DATE: FY 2001: Oct-01 FY 2002: Oct-02 FY 2003: Oct-03 (\$ in Millions) FY 2001 FY 2003 os Prior Years FY 2002 FY 2004 FY 2005 FY 2006 FY 2007 To Complete Total Qty \$ Qty Qty \$ Qty \$ Qty Qty \$ Qty \$ \$ Qty \$ Qty \$ Qty \$ \$ Qty \$ PRIOR YEARS 23 12.8 23 12.8 FY 2001 EQUIPMENT 1.2 1.2 FY 2002 EQUIPMENT 1.8 1.8 FY 2003 EQUIPMENT 1.8 1.8 FY 2004 EQUIPMENT 1.9 1.9 FY 2005 EQUIPMENT 1.9 1.9 FY 2006 EQUIPMENT 1.9 1.9 FY 2007 EQUIPMENT 2.0 2.0 FY 0000 EQUIPMENT TO COMPLETE INSTALLATION SCHEDULE: TC FY 2000 FY 2001 FY 2003 FY 2007 FY 2002 FY 2004 FY 2005 FY 2006 & Prior 3 3 **TOTAL** 4 3 23 0 1 1 0 0 1 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 37 In Out 23 1 1 0 0 1 1 0 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 37 CLASSIFICATION: UNCLASSIFIED ITEM 111 PAGE 5

UNCLASSIFIED

OLAGOII I	WEAPONS SYSTEM COST ANAL	VSIS							Weapon Sys	etom							DATE:		
	P-5	1010							vveapon by	oterni -								ANUARY 20	02
	PRIATION/BUDGET ACTIVITY								ID Code	P-1 ITEM I	NOMENCLA	ATURE/SUBH	EAD						-
Other F	Procurement, Navy																		
BA-4 C	ordnance Support Equipment									SUBMARI	NE ASW SI	JPPORT EQL	JIPMENT B	LI: 543100 S	SUBHEAD: 846A				
COST	ELEMENT OF COST	ID	Prior	FY 2004	ļ		FY 2005			FY 2006			FY 2007			To Complete		-	Total
CODE		Code	Years													·			
			Total Cost	Quantity	Unit Cos	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
	SUBMARINE (N77)																		
6A002	SUB TORPEDO TUBE SUPPORT	Α				4.005			005			000			004				
	O/A PROTOTYPE/ECP MATERIAL				1,005			995			999			961					
	2J COG MATERIAL					240			245			250			255				
	TEST EQUIPMENT																		
	BORG GAGE					276			286			291			297				
	TEST FACILITY EQUIPMENT					700			619			619			698				
	MISC. TEST EQUIPMENT					271			277			294			304				
	TEP ORDALTs/TRIDS																		
	O/A 16264 TEP QUIET 1			2	437.0	874	2	444.0	888	2	451.0	902	2	458.0	916				
	TPES FIRING VALVE																		
	TOTAL EQUIPMENT					3,366			3,310			3,355			3,431				
	SUBMARINE (N77)																		
	<u> </u>																		
6A5IN	INSTALLATION OF EQUIPMENT (FMP)					1,870			1,906			1,940			1,981				
O/ (SII V	INOTALEATION OF EQUILIBRIAN (TIME)					1,070			1,000			1,040			1,001				
	1			1		5,236	1		5,216	1		5,295	5	1	5,412	1			

CLASSIFICATION: DD FORM 2446, JUN 86 P-1 SHOPPING LIST PAGE NO. 6

ITEM NO. 107

UNCLASSIFIED

		BUDGE	T ITEM JUSTIFICA	DATE:							
			P-40	February 2002							
APPROPRIATION/BL	JDGET ACTIVIT	Υ			P-1 ITEM NOM	ENCLATURE			-		
OTHER PROCUR	EMENT, NA	VY BA-4, ORD	NANCE SUPPORT	SURFA	CE ASW SU	PPORT EQU	PMENT (544	900 & 544905	5) 746B		
Program Element for (Code B Items:					Other Related I	Program Elemer	nts			
	Prior	ID								То	
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY											
COST											
(In Millions)			\$13.0	\$7.3	\$3.5	\$5.0	\$4.9	\$5.0	\$5.1		\$43.8
SPARES COST											
(In Millions)											\$0.0

This line item provides funding to procure Reliability, Maintainability and Availability (RM&A) and Safety modifications through the Ordnance Alteration (ORDALT) process to in-service ASW Fire Control, Surface Vessel Torpedo Tubes and related support and test equipment. These requirements arise as a result of evaluation, testing and Fleet use of existing, new or modified ASW weapons and/or related systems and subsystems. Included in this line item are all related procurements for training and simulation equipment required for the life cycle support efforts of this equipment. ORDALT quantities are highly variable.

Cost Code 6B001 provides funding for Ordnance Alteration (ORDALT) kits for the ASW Underwater Fire Control System (UFCS) MK116 MOD4 and the Control Panel MK309 MOD2. Provides material support for the UFCS MK116 and Control Panel MK309 shoresite laboratory at NSWC Dahlgren. Procurements will ensure laboratories are at Fleet baseline configurations. Provides funding for equipment upgrades for the MK331 Torpedo Setting Panel and the Torpedo Presetter Test Set MK432 MOD4/MOD6.

Cost Code 6B004 provides funding for Surface Vessel Torpedo Tubes (SVTT) MK32 and ancillary equipment for testing, training and maintainability. FY02-03 ORDALT procurements include: SVTT ORDALT (15713, 16412, 16413, 16564, 16627, 16628, 16678, 16717); Control Box improvement ORDALT (TBD); Barrel Ready Circuit Rewiring ORDALT (TBD); Advanced Torpedo Ready Breach (ATTRB); Launcher Train Drive Switch Rewiring ORDALT (TBD); Torpedo Loading Tray ORDALT (15714); Air Charging Panel ORDALT (TBD); and Torpedo Test Shape (TTS) Torpedo MK54 Compatibility ORDALT (TBD). ORDALT procurements are highly variable, dependent on shipboard configurations and equipment age. Installations are highly variable and are based on pier-side availabilities and ship homeports. Procure Surface Vessel Torpedo Tubes (SVTT) shoresite laboratory equipment for Launcher System Facilities (LSF). LSFs are used to simulate shipboard conditions for over-the-side torpedo launchers in the trouble shooting of Fleet reported problems, as well as for the development of the required ORDALTs.

- (1) Installation agent: All ORDALTs are installed via AIT.
- (2) Installations will be accomplished over the remaining fiscal years, during TYCOM scheduled pier-side availabilities.
- (3) End items are variable, dependent on shipboard configuration and equipment that affect shoresites: NUWC Newport, UDLP, and Fleet/Service School Commands.

Cost Code 6B005 provides fully remanufactured/upgraded SVTT systems to the FFG-7 and DDG-51 Class ships at pre-determined intervals, based on the life of the ship. This program will also provide long-lead launchers and other components to support upgrades, CASREP resolution and ISEA engineering requirements.

P-1 SHOPPING LIST

ITEM NO. 112 PAGE 1

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		ATE:					
P-40		February 2002					
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY BA-4, ORDNANCE SUPPORT EQUIPMENT	SURFACE ASW SUPPORT EQUIPMENT (544900 & 544905) 746B						
Cost Code 6B830 provides the necessary engineering support funds to cover the associated ILS elements	s, ECP reviews, and engineering audit	s for SVTT and Fire Control ORDALT production.					
Cost Code 6B860 provides the in-house Navy acceptance test and evaluation funding required for the safe	ety and quality assurance testing of all	Fire Control ORDALTS.					
Cost Code 6B900 provides the necessary funding for consulting services required for all scheduling of O requirements.	ORDALT production test and installation	n in conjunction with operation, safety and environmental					
Cost Code 6B5IN funds installation of all FCS/SVTT ORDALTs and Flexible Universal Stowage System (FORDALT AIT pier-side installations are variable and contingent on TYCOM scheduling.	FUSS) under the Fleet Modernization I	Program (FMP).					

P-1 SHOPPING LIST CLASSIFICATION:
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UNCLASSIFIED

UNCLASSIFIED CLASSIFICATION:

WEAPONS SYSTEM COST ANALYSIS P-5 APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4, ORDNANCE SUPPORT EQUIPMENT						Weapon System								DATE: February 2002		
					ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD SURFACE ASW SUPPORT EQUIPMENT (544900 & 544905) 746B							ary 2002			
i, c			TOTAL COS	T IN THOUS	SANDS OF DO							<u> </u>	•, · ·•=			
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2001			FY 2002			FY 2003		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
6B001	FIRE CONTROL ORDALTS	А							1,713			443			87	
6B004	TORPEDO TUBE ORDALTS	A							1,470			387			658	
6B005	SVTT UPGRADES	A							7,049			4,200				
6B830	PRODUCTION ENGINEERING SUPPORT	A							65			60			209	
6B860	FIRE CONTROL ACCEPTANCE T&E	A							115			30			30	
6B900	CONSULTING SERVICES	А							316			30			39	
6B5IN	FMP INSTALLATION OF EQUIPMENT FIRE CONTROL/SVTT	А							(2,236) 72			(2,197) 245			(1,649 159	
	FUSS								2,164			1,952			1,490	
	1 2446, JUN 86					P-1 SHOPPING	LIOT		12,964			7,347	CLASSIFIC	ATION	3,46	

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UNCLASSIFIED

		Е	BUDGET ITEM JUSTIFICA	DATE:								
			P.	February 2002								
APPROPRIATION/BU	DGET ACTIVIT	Υ		P-1 ITEM NOM	IENCLATURE							
OTHER PROCURI BA 4 - ORDNANC			MENT	ASW Range Support Equipment - BLI: 545500								
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years	ID Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total	
QUANTITY												
COST (In Millions)			\$6.8	\$6.0	\$7.4	\$7.7	\$7.8	\$7.9	\$8.1		\$51.7	
SPARES COST (In Millions)											\$0.0	

Funding provides for the procurement of training range and shore support equipment, Test and Evaluation (T&E), and Acoustic Trial range equipment, and weapon system and test support equipment. Equipment procured includes instrumentation for Fleet Operational Readiness Accuracy Check Sites (FORACS) and Naval Undersea Warfare Center, Keyport (NUWC, KPT) T&E ranges, support equipment required to conduct Fleet exercises at Navy ASW Training ranges, Weapon System Accuracy Trials (WSAT) test, Surface Ship Radiated Noise Measurement (SSRNM), Sensor Accuracy Test (SAT), Ship ASW Readiness/Effectiveness Measuring (SHAREM) and Sonar Acoustic Target Source (SATS). Training and T&E ranges supported include Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Atlantic Underwater Test and Evaluation Center (AUTEC), Atlantic Fleet Weapons Training Facility (AFWTF) (St. Croix), Nanoose, Quinault and Dabob Bay. FORACS ranges supported include Andros Island, Southern California, and Hawaii.

6C001 - Weapon System and Test Support Equipment:

Funding provides for the procurement of high power ESM targets, range communication systems, replacement of obsolete range computers, ship auto-tracking system. Surface Ship Acoustic Range Components, Sensor Accuracy Test (SAT) equipment, Ship ASW Readiness/Effectiveness Measuring (SHAREM), upgraded ship position tracking system and upgrade hardware for Sonar Acoustic Target Source (SATS) as a test and calibration target for the SQQ-89I, SQS-53C, BQQ-5E and BSY-1 sonars.

6C002 - Training/Test & Evaluation Range Equipment:

Funding provides for the procurement of shipboard underwater tracking equipment for the existing ranges as well as the new Shallow Water Training Ranges on both coasts and in Hawaii, shop special purpose pinger test equipment, and the associated cables/mounting hardware required to track ships and submarines conducting Fleet exercises at the Navy training ranges. NAVSEA provides all of the Navy Underwater Ranges with this tracking equipment support, because the equipment must be compatible with NAVSEA designed and built underwater vehicles (i.e. ships, submarines, torpedoes, mines and sonars).

Funding provides for replacement and modernization of the following NUWC, KPT T&E range systems: Acoustic Noise Measuring Recording and Analysis System, Above Water Tracking System, RF and underwater communications equipment, and range data gathering equipment.

Production support services will fund support efforts performed by a field activity or contractor during the production phase of these projects.

The Unmanned Seaborne Targets Program provides surface seaborne targets and target electronic augmentation systems for weapons systems test and evaluation and Fleet surface to surface and

air to surface training. Target requirements include the High Speed Mobile Sea Target (HSMST), the MK42 Mod 0 Floating At Sea Target (FAST) and the High Speed Anti-Radiation Missile/Infared Missile (HARM/IR) Target, Towed Trimaran, William Sled, and Improved Surface Towed Target (ISTT). Inventory objective changes based on Fleet usage. Procurement of replacement targets for the QST-35 is planned to begin in FY05.

VR001 - QST 35 Replacement

VR003, VR004 - The fleet also requires low cost expendable moving targets and stationary targets towed to the operating site for surface, aerial gunnery and missile shots. Trimarans, HARM/IR target, Williams Sleds, and ISTT with tow lines and retrieval systems meet these requirements. The FAST is a free floating radar reflective target developed as an open ocean training device for bombing and surface gunnery exercises. This program also procures seaborne target augmentation systems which include transponders (i.e. transmitters/receivers), radar reflectors, RF emitters and ground support equipment (GSE). Various electronic components provide the interface for the target control systems with the control stations/facilities for drone operations. RF emitters and radar reflectors enhance target threat replication and provide the required stimulus for anti-surface/radar weapons systems.

VR005 - The Fleet requires High Speed Maneuverable Seaborne Targets (HSMST) MK1.

VR006 - SDST (Ship Deployable Surface Target) will be used to support ship training and T&E exercises. This target will support training requirements of deploying ships, aircraft and surface gunnery requirements.

* DERF Funds: Received \$1.500 for unmanned Seaborne Targets program.

P-1 SHOPPING LIST

CLASSIFICATION:

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UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System							DATE: 37288				
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 4 - ORDNANCE SUPPORT EQUIPMENT					ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ASW Range Support Equipment BLI: 545500							SUBHEAD 846C		
DA 4 - C	NONANGE SOLLOKT EGGIL MENT		TOTAL COS	T IN THOUS	SANDS OF DO	LLARS	AOW Ital	ige ouppor	t Equipmen	IL DEI. 34	3300			0400	
COST	ELEMENT OF COST	ID Code	Prior Years Total Cost	Quantity	Unit Cost	Total Cost	FY 2001 st Quantity Unit Cost		Total Cost	Quantity	FY 2002 Unit Cost	Total Cost			Total Cost
			Total Cost	Quantity	Offit Cost	Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Offit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	N76														
	EQUIPMENT														
6C001	Weapon System & Test Support Equip.								996			879			825
6C002	Training/Test & Evaluation Range Equip.								208			171			179
6C820	Consulting Services								24			24			22
6C830	Production Engineering								81			79			10
6C850	Product Improvement								68			68			8
	SEABORNE TARGETS														
6C001	QST 35 REPLACEMENT														
6C003	TOWED TARGETS								602			142			420
6C004	INSTRUMENTAL								75			0			476
6C005	HSMST						5	144	720	3	150	450	7	154	1,078
6C830	PRODUCTION ENGINEERING								170			194			170
6C900	CONSULTING SERVICES								156			100			166
6C970	INTEGRATED LOGISTICS SUPPORT								164			152			159
	N77														
	EQUIPMENT														
6C001	Weapon System & Test Support Equip.								916			847			82
6C002	Training/Test & Evaluation Range Equip.								2,142			2334			2,258
6C820	Consulting Services								70			71			65
6C830	Production Engineering								225			239			278
6C850	Product Improvement								190			209			239
חם בספיי	2446, JUN 86	D 4 0''	OPPING LIST			PAGE NO.	<u> </u>		6,807			5,959 CLASSIFICA			7,350

DD FORM 2446, JUN 86 P-1 SHOPPING LIST PAGE NO. CLASSI ITEM NO. 113 2

UNCLASSIFIED

MENT HIST	ORY AND	PLANNING EXHIB	IT (P-5A)		Weapon System			A. DATE February 2002			
ET ACTIVITY	DA 4 01	DNANCE COT E	OLUDMENT	C. P-1 ITEM NOMENCLATURE SUBHEAD							
Navy	BA-4 OF	RUNANCE SPI E	QUIPMENT	ASW KANGE SUPPORT EQUIPMENT BLI: 5455							
QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE		
5	144	NAVSEA	Apr 01	C/FP	TBD	Jun 01	Oct 01	YES			
3	150	NAVSEA	TBD	C/FP	TBD	TBD	TBD	YES			
7	154	NAVSEA	TBD	C/FP	TBD	TBD	TBD	YES			
	ET ACTIVITY Navy	QUANTITY UNIT COST (000) 5 144 3 150	QUANTITY UNIT COST (000) 5 144 NAVSEA 3 150 NAVSEA	Navy BA-4 ORDNANCE SPT EQUIPMENT QUANTITY UNIT COST OF PCO FOO DATE 5 144 NAVSEA Apr 01 3 150 NAVSEA TBD	BA-4 ORDNANCE SPT EQUIPMENT QUANTITY UNIT COST (000) LOCATION OF PCO The provided HTML of	RACTIVITY Navy BA-4 ORDNANCE SPT EQUIPMENT QUANTITY UNIT COST (000) CONTRACT METHOD AND LOCATION OF PCO TO DATE CONTRACT METHOD AND LOCATION AND LOCATION AND LOCATION AND LOCATION AND LOCATION AND LOCATION COFP TBD TBD	TACTIVITY NAVY BA-4 ORDNANCE SPT EQUIPMENT C. P-1 ITEM NOMENCLATURE ASW RANGE SUPPORT EQUIPMENT B CONTRACT METHOD & TYPE CONTRACTOR AND LOCATION OF PCO DATE CONTRACT METHOD & TYPE TBD Jun 01 3 150 NAVSEA TBD C/FP TBD TBD	ET ACTIVITY Navy BA-4 ORDNANCE SPT EQUIPMENT QUANTITY UNIT COST (000) CONTRACT METHOD ATE AND LOCATION OF PCO TO PCO TO PCO TO PCO TO PCO CONTRACT METHOD ATE AND LOCATION AND LOCATION AND LOCATION AND LOCATION AND LOCATION AND LOCATION DATE CONTRACT METHOD ATE AND LOCATION AND LOCATION AWARD DATE DELIVERY TBD Jun 01 Oct 01 TBD TBD TBD TBD	TACTIVITY Navy BA-4 ORDNANCE SPT EQUIPMENT C. P-1 ITEM NOMENCLATURE ASW RANGE SUPPORT EQUIPMENT CONTRACT METHOD AND LOCATION OF PCO The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE The proof of pco CONTRACT METHOD AND LOCATION DATE THE proof of pco CONTRACT METHOD AND LOCATION DATE THE proof of pco CONTRACT METHOD AND LOCATION DATE THE proof of pco CONTRACT METHOD AND LOCATION DATE THE pco CONTRACT METHOD AND LOCATION DA		

Classification: P-1 SHOPPING LIST ITEM NO. 113 DD Form 2446-1, JUL 87

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UNCLASSIFIED

		E	BUDGET ITE	M JUSTIFICA	ATION SHEE	DATE:						
				P-40	February 2002							
APPROPRIATION/BU	DGET ACTIVIT	Y			P-1 ITEM NOM	ENCLATURE						
OTHER PROCUR	THER PROCUREMENT, NAVY/BA-4 EXPLOSIVE ORDNANCE DISPOSAL EQUIPMEN								AL EQUIPMENT/BLI#	5509		
Program Element for Code B Items:							Other Related F	Program Elemer	nts			
0603654N							0204424N					
	Prior	ID								То		
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total	
QUANTITY												
COST												
(In Millions)		Α	\$8.3	\$9.3	\$7.8	\$8.3	\$8.3	\$8.5	\$8.6	Cont.	Cont.	
SPARES COST												
(In Millions)			\$4.8	\$4.2	\$4.4	\$4.5	\$4.7	\$4.5	\$2.6	Cont.	Cont.	

The Navy is responsible for the management and execution of the Joint Service EOD unified procurement system as assigned by DOD Directive 5160.62. All procurement of EOD tools and equipment, both initial outfitting and replenishment, for all military services is made by the Navy. The Navy provides all procurement services. There is an annual average of 300 procurement actions for this material. Each military service funds it's own hardware.

VN005-MATERIAL FOR NAVAL SCHOOL EXPLOSIVE ORDNANCE DISPOSAL (NAVSCOLEOD): Provides for inert ordnance material to NAVSCOLEOD in support of Joint Service training.

VN034-INITIAL OUTFIT EOD NR: EOD Naval Reserve Mobile Units/Detachments require initial outfitting of equipment on the Allowance List as approved by CNO.

VN059-EOD MOBILE UNIT ALLOWANCE: Initial outfitting of tools/equipment for increased allowances on the CNO approved Allowance List.

VN065-MK 4 & MK 7 MMS VERY SHALLOW WATER MINE COUNTERMEASURES (VSWMCM): This funding supports initial outfitting of hardware and animal behaviors required for the subject systems to operate in a limited hostile environment and enhance system survivability.

VN066-MK 4 & MK 7 MMS VSW ACCESSORY SET-Procurement of enhanced hardware design which allows for the neutralization of mines in the VSW region which are subject to tidal surge and elevated currents.

VN068-MK 8 MMS: An advanced force system which conducts very shallow water minefield exploration and reconnaissance in support of amphibious operations. MK 8 will operate in low visibility and detect all mine types; buried, proud and moored. This funding supports initial outfitting of all system hardware and components. The following DT/OT is completed/scheduled DT-I 11/98 to 8/99; OT-I 9/99; DT II 11/99 to 2/01; OT II 5/01.

VN069-MMS ALLOWANCE: Initial outfitting of tools/equipment including veterinary equipment for increased allowances of all Fleet MMS in accordance with CNO approved allowance list.

VN070-SMALL CALIBER DEARMER: A tool that provides the EOD technician the capability to cut, serve, jam, or disrupt small concealed firing devices and booby traps in various challenging orientations. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 10/99 to 1/01.

VN071-STANDOFF DISRUPTER(UXO): Provides the EOD technician the capability to disrupt or render safe sophisticated threat unexploded ordnance (UXO). Modern UXO have sensors that can readily be triggered by an EOD technician near or in close proximity to the munitions. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 7/00 to 2/01.

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CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		February 2002
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-4	E	OD EQUIPMENT/BLI#5509

VN072-STANDOFF DISRUPTER(IED): Provides the EOD technician the capability to disrupt Improvised Explosive Devices (IEDs) from a standoff position. The standoff capability will allow the technicians to engage IEDs from a protective posture. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 8/00 to 5/01.

VN075-EOD EQUIPMENT/SYSTEM:

REMOTE ORDNANCE NEUTRALIZATION SYSTEM CONTINUOUS IMPROVEMENT PROGRAM (RONS CIP): The RONS is a robotic system which consists primarily of a remote controlled vehicle and an operator control station. The RONS CIP provides improvements to performance and increases capabilities of the RONS.

LARGE IMPROVISED EXPLOSIVE DEVICE (IED) ACCESS & DISRUPTION: Provides the EOD technicians an effective and reliable capability to neutralize large IEDs. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 12/00 to 3/04.

VN076- MARINE MAMMAL SYSTEMS/EQUIPMENT:

MMS VSW MCM: This funding supports initial outfitting of hardware and animal behaviors required for the subject systems to operate in a limited hostile environment and enhance system survivability.

VSW ACCESSORY SET: Procurement of enhanced hardware design which allows for the neutralization of mines in the VSW region which are subject to tidal surge and elevated currents.

MMS ALLOWANCE: Initial outfitting of tools/equipment including veterinary equipment for increased allowances of all Fleet MMS in accordance with CNO approved allowance list.

MK 8 MMS: An advanced force system which conducts very shallow water minefield exploration and reconnaissance in support of amphibious operations. MK 8 will operate in low visibility and detect all mine types; buried, proud and moored. This funding supports initial outfitting of all system hardware and components. The following DT/OT is completed/scheduled DT-I 11/98 to 8/99; OT-I 9/99; DT II 11/99 to 2/01: OT II 5/01.

VN077-EOD OUTFITTING:

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MATERIAL FOR NAVSCOLEOD: Provides for inert ordnance material to NAVSCOLEOD in support of Joint Service training.

INITIAL OUTFIT DET NAVAL RESERVE: EOD Naval Reserve Mobile Units/Detachments require initial outfitting of equipment on the Allowance List as approved by CNO.

EOD MOBILE UNIT ALLOWANCE: Initial outfitting of tools/equipment for increased allowances on the CNO approved Allowance List.

VN830-PRODUCTION ENGINEERING: Review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the EOD unified procurement system. Provides production engineering support for all EOD and MMS production contracts.

VN850-PRODUCT IMPROVEMENT: Engineering services to improve EOD/MMS Systems/Equipment in production to improve maintainability, utilize current technology and decrease cost.

VN860-ACCEPTANCE, TEST & EVALUATION: Test, inspect, accept first articles and, on a 100% basis, the production quantity of EOD tools and equipment being procured. These tools are man-rated, and proper functioning of each item must be verified

VNTNG-INITIAL TRAINING: Provide training support packages which include curriculum material for Joint Service EOD and Marine Mammal systems equipment.

ERF,D: Provides for the procurement of AT/FP equipment for Mobile Security Force Outfitting and EOD Mobile Unit AT/FP Outfitting.

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CLASSIFICATION:

ITEM NO. 114 PAGE NO. 2

CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM COST P-5	ANA	LYSIS			Weapon Sy	stem		DATE: February 2002						
APPROF	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM	NOMENCLAT	URE/SUBHE	EAD			l .	reprua	ry 2002
Other F	Procurement, Navy/BA-4														
						Α	Explosive Ordnance Disposal Equipment/74VN								
			TOTAL CO	ST IN THO	USANDS OF	DOLLARS									
COST	ELEMENT OF COST	ID	Prior		FY 2	2001		FY 2002			FY 2003				
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
	SPONSOR N75												Í		
	Explosive Ordnance Disposal Eq (175)													
VN005	MATERIAL FOR NAVSCOLEOD	Α				115									
VN034	INITIAL OUTFIT EOD NR	Α				326									
VN059	EOD MU ALLOWANCE	Α				1,567									
VN065	MMS VSWMCM	Α				524									
VN066	VSW ACCESSORY SET	Α		152	3	535									
VN068	MK 8 MMS	Α				1,394									
VN069	MMS ALLOWANCE	Α				569									
VN070	SMALL CALIBER DEARMER	Α		151	2	302	31	2	63						
VN071	STANDOFF DISRUPTER(UXO)	Α		52	6	312	79	6	474						
VN072	STANDOFF DISRUPTER(IED)	Α		374	2	874									
VN075	EOD EQUIPMENT/SYSTEMS														
	RONS CIP	Α										464			
	LARGE IED ACCESS & DISRUPTION	В								200	3	600			
VN076	MARINE MAMMAL SYSTEMS/EQUIP.								3,646			2,449			
	MMS VSW MCM	Α							686			442			
	VSW ACCESSORY SET	Α					177	3	620	188	3	633			
	MMS ALLOWANCE	Α							200			160			
	MK 8 MMS	Α							2,140			1,214			
VN077	EOD OUTFITTING								3,307			2,368			
	MATERIAL FOR NAVSCOLEOD	Α							150			160			
	INITIAL OUTFIT DET NR	Α							350			353			
	EOD MU ALLOWANCE	Α							2,807			1,855			
VN830	PRODUCTION ENGINEERING	Α				640			665			690			
VN850	PRODUCT IMPROVEMENT	Α				635			645			675			
VN860	ACCEPTANCE, TEST & EVALUATION	Α				300			320			320			
VNTNG	INITIAL TRAINING	Α				200			150			240			
	ERF,D AT/FP OUTFITTING								47,800					1	
	1 2446 . II IN 86		0		P-1 SHOPPI	8,293			9,270			7,806	L		<u> </u>

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

CLASSIFICATION:	UNCLASSIF	IED
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BUDGET PROCURE	MENT HIST	ORY AND	PLANNING EXHIB	IT (P-5A)			A. DATE				
								1	February 20	002	
B. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NO	MENCLATURE					
Other Procurement,	Navy				EOD EQUIP	MENT/BLI #5509		74VN			
BA 4: ORDNANCE S	SUPPORT E	EQUIPMEN	IT								
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FISCAL YEAR (01)											
VN066	152	3			WR	SSC, SAN DIEGO, CA	2/01	2/02	YES		
VN070	151	2			WR	NAVEODTECHDIV, MD	6/01	11/01	YES		
VN071	52	6	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	6/01	10/01	YES		
VN072	374	2	NEODTD, IH, MD		FFP	MAR-VEL, NJ	5/01	7/01	YES		
FISCAL YEAR (02)											
VN070	31	2			WR	NAVEODTECHDIV, MD	2/02	7/02	YES		
VN071	79	6	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	2/02	6/02	YES		
VN076											
VSW Accessory Set	177	3			WR	SSC,SAN DIEGO, CA	2/02	2/03	YES		
FISCAL YEAR (03) VN075											
Large IED	200	3	NSWCIHD, IH, MD		FFP	TBD	3/03	6/03	NO		
VN076											
VSW Accessory Set	188	3			WR	SSC, SAN DIEGO, CA	2/03	2/04	YES		
D. REMARKS		•	•	•	•	•	•	•	•		

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87

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			BUDGET ITI	EM JUSTIFICA	TION SHEET				DATE:					
				P-40			FEBRUARY 2002							
APPROPRIATION/BUD	GET ACTIVITY	′			P-1 ITEM NOM	ENCLATURE								
OTHER PROCUREME	ENT, NAVY	ВА	4: ORDNANCE	SUPPORT EC		ITEMS LE	SS THAN \$5M	BLI 5543	00 / 554305					
Program Element for Co	de B Items:				Other Related F	Program Elemer	nts							
	Prior	ID									То			
	Years	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total		
QUANTITY														
COST														
(In Millions)				\$5.3	\$5.7	\$3.8	\$5.5	\$5.5	\$5.6	\$5.7		\$37.1		
SPARES COST														
(In Millions)				\$0.1	\$0.1	\$0.1	\$0.2	\$0.2	\$0.2	\$0.2		\$1.0		

PROGRAM DESCRIPTION/JUSTIFICATION: Program Support Requirements for minor NAVSEA under \$5M is for Budget Activity 4 as follows:

RA001; MK92/MK13 ORDALT Procurement:

Provides hardware and related materials to modify Fire Control System MK92 Mod 2/6 and Guided Missile Launching System MK13 installed onboard 23 FFG 7 Class ships. Modifications correct safety, environmental, RM&A, cost of ownership and obsolescence deficiencies to maintain the readiness of the AAW/ASUW Weapons System mission for self and area defense against hostile air and surface threats, including anti-ship missile threats. Hardware is procured as Ordnance Alterations (ORDALTs). Installation of ORDALTs will be accomplished by either AIT (Alteration Installation Teams or in conjunction with routine repair actions planned in the fiscal years following the procurement.

RA5IN: MK92/MK13 ORDALT Installation:

Provides funding to install procured MK92/MK13 ORDALTs into FFG 7 Class ships by AIT.

RA003; Industrial Facilities (Calibration Equipment):

Provides funding for capital type rehabilitation projects at five (5) government-owned, contractor- operated plants for weapon systems such as the MK 41 Vertical Launching System, MK 45 Gun Mounts, MK 13/26 Launching Systems, MK 13/26 Launching Systems, and PHALANX. Federal Acquisition Regulation Part 52.245-7 specifies facilities use contracts require government funding of capital type rehabilitation projects to support and maintain these facilities. These plants have an average age of 45 years and lack of proper maintenance will severely limit capabilities to maintain scheduled production rates and overall productivity. The following estimates support environmental, safety, energy conservation, and major repair at the GOCO facilities.

(Continued on next page)

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CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 115 PAGE NO. 1

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		DATE:		
P-40			FEBRUARY 2002	
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE			
OTHER PROCUREMENT, NAVY BA 4: ORDNANCE SUPPORT EQUIPMENT	ITEMS LES	S THAN \$5M	BLI 554300 / 554305	
Program Element for Code B Items:	Other Related Program Elements	S		

RA004; Stock Surveillance Equipment

Provides funding to procure test systems and equipment in support of the NAVY weapons systems and ordnance Quality, reliable, and ready Navy and Marine Corps weapons systems and ordnance items are provided to the Fleet. The results of the QE stock surveillance testing is technical readiness data used to predict when items degrade to the point where they become unsafe to store or would fail to function (unreliable) when needed and should be removed from service.

This generic (non-weapons systems specific) test equipment is needed to assess the effects of aging and exposure to environmental conditions on NAVY weapons systems and ordnance such as mines, gun ammunition, missiles, pyrotechnics, demolition systems/devices, bombs, and torpedoes throughout the in-service portion of their life cycle and will be located at NAVSEA engineering field activities. Requirements for the test equipment come from a need to replace or modernize obsolete or economically non-repairable equipment or to acquire new or expanded generic test capabilities when new evaluation techniques or process are needed. The equipment procured by these funds are generally "one of a kind" and are used to support generic NAVY weapons systems and ordnance types.

Weapons systems specific equipment is procured/funded via the individual weapons system Program Management offices. After the weapon specific equipment has entered the inventory, these funds adapt the capability, if feasible, to become more generic and support more than one weapon system. This reduces the overall economic burden to the NAVY.

RA005 Fleet Mine Support Equipment:

The Fleet Mine Support program provides for procurement of material and production support for readiness of all mines in stockpile. This includes both the service mine program and the Mine Exercise and Training (MET) Program in accordance with OPNAVNOTE C8550. Funds will provide the following: (A) Procurement of mine materials to replace expended components used during the MET program for delivery proficiency. (B) Procurement of mine materials to replace expended components used during the MET program for Mine Countermeasures (MCM) proficiency. (C) Procurement of components to improve mine operational characteristics and capabilities, such as upgraded processors for compatibility with current and projected technology. (D) Procurement of new MET shapes for MCM proficiency.

RA830; Fleet Mine Support Production Engineering:

Funds will provide production engineering support for mine assembly and loading, proof and test of mine components delivered from procurement. Certification of specialization/documentation relating to mine material to be	е
procured, engineering and quality assurance services in support of mine material procurements and publications in support of component assembly and test for service and MET program	

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CLASSIFICATION:

ITEM NO. 115 PAGE NO. 2

	WEAPONS SYSTEM COST ANA P-5	ALYSIS		Weapon S	System		DATE: FEBRUARY 2002						
	PRIATION/BUDGET ACTIVITY Procurement, Navy			ID Code		OMENCLATUR ESS THAN		BLI 5543	00 / 554305	5			
			TOTAL COS	T IN THOUS	ANDS OF DOL	LARS							
COST	ELEMENT OF COST	ID Code	Prior Years			FY 2001			FY 2002			FY 2003	
			Total Cost		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
RA001	FLT SUPPORT ORDALTS(MK92/MK13)	A			12	82	978	12	87	1,043			
RA002	FMP Installation				12	02	112	12	Oi	110			
RA003	INDUST. FACILITIES (CALIB. EQUIP)					997			1,053			(
RA004	STOCK SURVEILLANCE EQUIPMENT					1,493			1,581			1,5	
	FLEET MINE SUPPORT EQUIPMENT												
RA005	Mine System Support	Α					1,520			1,680			;
	Production Engineering												
	l		0)			5,322			5,744		-	-

A. DATE					
BRUARY 2002 JBHEAD 84RA					
O-HUT					
SPECS DATE AVAILABLE REVISION NOW AVAILABL					
YES					
YES					
NO					
YES					
YES					

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 115 Classification:

PAGE NO. 5

CLASSIFICATION: UNCLASSIFIED

		BUD	GET ITEM JU	STIFICATION	SHEET				DATE:						
			F	P-40			FEBRUARY 2002								
APPROPRIATION/BUILD OTHER PROCURE							P-1 ITEM NOMENCLATURE/LINE ITEM #								
BA 4 - ORDNANCI	E SUPPORT	EQUIP	MENT		ANTI-SHIP MISSILE DECOY SYSTEMS/5530										
Program Element for	Code B Items:		0604757N, Proje	OTHER RELAT	ED PROGRAM	ELEMENTS									
							N/	' A							
	FY00	ID								То					
	and Prior	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total				
QUANTITY	26		8	8	12	12	12	13	11	17	119				
EQUIPMENT COST															
(In Millions)	88.0	Α	\$36.9	\$27.3	\$28.0	\$35.9	\$43.3	\$44.2	\$40.7	\$185.1	\$529.2				
SPARES COST															
(In Millions)	0.7		\$0.36	\$0.14	\$0.20	\$0.21	\$0.16	\$0.21	\$0.22	\$0.1	\$2.3				

PROGRAM DESCRIPTION/JUSTIFICATION:

JUSTIFICATION: The Anti-Ship Missile Decoy Program covers a family of decoys and the equipment to deploy them. It is an essential element of the Anti-Ship Missile Defense tactics to counter the threat of enemy homing missiles. Equipment funded under this line includes:

NULKA: This line contains various equipment and subsystems for a system which will provide the capability to defeat the effectiveness of hostile Anti-Ship cruise missiles. Currently Nulka is scheduled to be installed on the following ship classes: DD 963, DDG 51, CG 47, FFG-7, LSD 41, LPD 17, and DX. The installation will be performed during a limited availability by shipalt/Alteration Installation Team (AIT). Final installation plans will be made upon maturation of ship installation design.

- (a) Decoys and launching system equipment. An active off-board Anti-Ship Missile Decoy System.
- (b) Production Engineering Support.

Nulka is a joint program with Australia, and is currently in service with the Australian Navy. Nulka underwent successful TECHEVAL and OPEVAL in July/August 1998 with a full production decision received in January 1999.

EQUIPMENT INSTALLATION: Funding is for the installation of equipment, including Fleet Modernization Program Installs, and installation of equipment at shore facilities

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). PAGE NO.

CLASSIFICATION:

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UNCLASSIFIED

ITEM NO. 116

	WEAPONS SYSTEM C P-5	OST A	NALYSIS			Weapon Sy	stem		DATE: FEBRAURY 2002								
	RIATION/BUDGET ACTIVITY rocurement, Navy	ORDI	NANCE SUI	PPORT E	QUIPMENT	ID Code	ID Code P-1 ITEM NOMENCLATURE/SUBHEAD ANTI-SHIP MISSILE DECOY SYSTEMS/A4VV										
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS											
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2001			FY 2002		FY 2003				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	<u>N76</u>																
	EQUIPMENT																
VV001	NULKA SYSTEMS	А	14,823				8	230	1,840	8	240	1,920	12	250	3,000		
VV002	002 NULKA DECOYS* A						95	258	24,510	46	303	13,938	40	307	12,267		
VV003	Engineering Changes and Logistics Suppt		13,044						4,441			4,478			5,192		
	Engineering Changes FFG Non-Recurring		(5,100)						(1,422)			(1,189) (515)			(1,265 (1,200		
	Logistics Support		(7,944)						(3,019)			(2,774)			(2,727)		
VV830	Production Engineering		5,000						1,500			1,500			1,500		
	INSTALL																
VVINS	Installation (FMP)		10,514						4,581			5,433			6,017		
FY02 Con	gressional Plus-Up of \$5.0M was incorrectly	applied	to the SSDS	line (BLI 5	23900).												
				. ,==-	,												
DD FORM	2446, JUN 86	P-1 SH	87,957 OPPING LIST						36,872			27,269 CLASSIFICA			27,976		

PAGE NO.

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCU	REMEN	NT HIST	ORY AND PLAN	NING EXHIB	IT (P-5A)	Weapon System		A. DATE						
B. APPROPRIAT					C. P-1 ITEI	 M NOMENCLATURE			February 2002 SUBHEAD A4VV					
OTHER PROCUREMENT	Γ, NAVY/	BA-4 - ORI	DNANCE SUPPORT E	QUIPMENT	ANTI-SHIP MIS	SSILE DECOY LAUNCH	ΕM	A4	VV					
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE					
FISCAL YEAR 01 VV001 (Systems)	8	230	NAVSEA		FP	Sechan Electronics Inc.	1/01	1/02	YES					
VV002 (Decoys)	95	258	DCMC Pacific		FP	BAeS, Australia	1/01	1/02	YES					
FISCAL YEAR 02 VV001 (Systems)	8	240	NAVSEA		FP	Sechan Electronics Inc.	1/02	2/03	YES					
VV002 (Decoys)	46	303	DCMC Pacific		FP	BAeS, Australia	2/02	2/03	YES					
FISCAL YEAR 03 VV001 (Systems)	12	250	NAVSEA		FP	Sechan Electronics Inc.	1/03	2/04	YES					
VV002 (Decoys)	40	307	DCMC Pacific		FP	BAeS, Australia	2/03	2/04	YES					
D DEMVDK6														

D. REMARKS

P-1 SHOPPING LIST CLASSIFICATION: DD Form 2446-1, JUL 87

> PAGE NO. ITEM NO. 3

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CLASSIFICATION: UNCLASSIFIED

РЗА		INDIVID	UAL N	ODIFIC	ATION	1														
MODELS OF SYSTEM AFFECTED:	None - C	riginal Ins	tallation	าร	TYPE	MODIF	ICATIO	ON:						MODIFIC	CATIC	ON TITLE	≣:		NULKA	
DESCRIPTION/JUSTIFICATION:																				
Launching system modifications to support N	IULKA De	ecoy.																		
DEVELOPMENT OTATUO/MA IOD DEVELO	NOMENT I	MI FOTO	NEO																	
DEVELOPMENT STATUS/MAJOR DEVELO	FY 2000		NES:																	
	and Pric	<u>or</u> \$	<u>FY</u> QTY	<u>2001 </u>	<u>F`</u> QTY	<u>Y 2002</u> \$	<u>F\</u> QTY	<u>2003 </u>	<u>FY</u> QTY	<u>2004</u> \$	FY QTY	<u>′ 2005</u> \$	FY QTY	<u>2006</u> \$	FY QTY	<u>2007</u> \$	QTY	<u>FC</u> \$	<u>TC</u> QTY	<u>DTAL</u> \$
FINANCIAL PLAN (IN MILLIONS)						,				, , , , , , , , , , , , , , , , , , ,				,						*
<u>RDT&E</u>	3/58	126.9	0	3.2	0	3.3	0	1.1	0	1.1	0	1.1	0	1.1	0	1.1			3/58	138.9
<u>PROCUREMENT</u>																				
INSTALLATION KITS	25	13.9	8	1.8	8	1.9	12	3.0	12	3.1	12	3.24	13	3.6	11	3.2	17	5.1	118	38.9
INSTALLATION KITS NONRECURRING																				0.0
SCN MK 53 DLS**	4	1.3	3	0.7	4	1.0	4	1.0	4	1.0	1	0.3								**
EQUIPMENT NONRECURRING						0.5		1.2												0.0
ENGINEERING CHANGES		5.1		1.4		1.2		1.3		1.2		1.3		1.3		1.4		TBD		14.1
UNIT COST DATA FOR EQUIPMENT																				0.0
TRAINING EQUIPMENT	1*	0.97																	1	0.97
SUPPORT EQUIPMENT																				0.0
OTHER (DECOYS)	176	44.6	95	24.5	46	13.9	40	12.3	63	18.7	90	25.8	89	25.5	79	22.7	522	156.6	1200	344.7
LOGISTICS SUPPORT		7.9		3.0		2.8		2.7		3.0		3.0		3.0		3.1		TBD		28.6
PRODUCTION ENGINEERING		5.0		1.5		1.5		1.5		1.5		1.5		1.5		1.5		TBD		15.5
INTERIM CONTRACTOR SUPPORT																				
PROCUREMENT COST	201	77.4	103	32.3	54	21.8	52	22.0	75	27.6	102	34.9	102	35.0	90	31.8	539	161.7	1255	442.7
INSTALL COST	11	10.5	8	4.6	7	5.4	8	6.0	12	8.3	12	8.4	12	9.2	13	8.9	35	23.4	118	84.8
TOTAL PROGRAM		88.0		36.9		27.3		28.0		35.9		43.3		44.2		40.7		185.1		529.2
* Qty (1) trainer procurement with install cos	t included.					P-1 SHOPPING LIST							CLASSIFICATION:							

UNCLASSIFIED

**SCN is provided for information purposes only - \$\$ are not included in totals

ITEM NO.

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^{*} Qty (1) trainer procurement with install cost included.

P-1 SHOPPING LIST

CLASSIFICATION: UNCLASSIFIED P3A (Continued) INDIVIDUAL MODIFICATION (Continued) NULKA MODELS OF SYSTEMS AFFECTED: None. Original Installations MODIFICATION TITLE: INSTALLATION INFORMATION: SHIPALT/AIT METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 14/12 Months CONTRACT DATES: FY 2001: January 2001 FY 2002: February 2002 FY 2003: February 2003 DELIVERY DATE: FY 2001: January 2002 FY 2002: February 2003 FY 2003: February 2004 (\$ in Millions) FY 2000 and Prior FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 Cost: To Complete Total Qty Qty \$ Qty \$ Qty \$ Qty Qty Qty Qty \$ Qty Qty \$ \$ \$ \$ \$ PRIOR YEARS FY 1999 AND PRIOR 11 6.14 3.78 9.92 FY 2000 EQUIPMENT 4.37 8.0 4.02 9.19 FY 2001 EQUIPMENT 1.41 4.34 5.75 FY 2002 EQUIPMENT 1.32 4.25 5.57 FY 2003 EQUIPMENT 0.36 3.72 4.02 8.10 3.97 3.972 FY 2004 EQUIPMENT 0.36 8.31 FY 2005 EQUIPMENT 0.45 4.96 4.25 9.66 FY 2006 EQUIPMENT 0.639 4.33 5.20 10.17 FY 2007 EQUIPMENT 0.31 11 7.70 8.01 17 TO COMPLETE ** 11.90 11.90 INSTALLATION SCHEDULE: SHIP AVAILABILITIES FY2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 TC **TOTAL** AND PRIOR

0

0

IN

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FY 2002/03 BUDGET PRODUC	TION S	SCHE	DULE	, P-21														DA	ГΕ		FE	BRI	JAR	Y 20	002					
APPROPRIATION/BUDGET ACT	TIVITY												Wea	pon	Sy:	stem		P-1	ITEI	M N	OME	ENC	LAT	URE						
OTHER PROCUREMENT, NAV	Y/BA-4	- OR	DNAN	ICE S	UPPO	RT E	EQU	PME	ENT											ANTI	-SHIF	P MIS	SSILE	DEC	OY	3YST	EMS	/A4V\	/	
							Pro	duct	ion F	Rate					Pro	cure	mer	it Le	adtir	nes										
		Man	ufactu	ırer's								AL	T Pr	ior	ΑL	T Af	ter	I	nitia	I	R	eorc	ler					Un	it of	
Item	١	Name	and L	ocatio	n	M	SR	1-8	3-5	M	٩X	to	Oct	1		Oct 1		M	fg Pl	_T	M	fg P	LT		Tota	al		Mea	sure	Э
MK 53 DECOY LAUNCH SYSTEM		Sippi	can, N	1ASS		ç)			18						6			14			12								
MK 53 DECOY LAUNCH SYSTEM			an, P			ç)			18	8					6			14			14								
MK 234 NULKA ELECTRONIC DECOY			S, Aus			6				19						6			12			12								
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										FICC	AL YE	A.D. 00	004									FIC	241.3/	EAR	2002					ı
ITEM / MANUFACTURER	F	S	Q	D	В		2000			FISC			AR YE	A D 20	01				2001			r15(EAR 2				l
TIEW/ WANGI ACTORER	Y	S V	T	E	A	_	1			_		1		4K ZU							-	_				=AR 2		Τ.		В
		Ċ	Y	Ĺ	L	0	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	0 C	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	A
						T	V	C	N	В	R	R	Y	N	L	G	Р	T	٧	C	N	В	R	R	Y	N	L	G	P	L
MK 53 DECOY LAUNCH SYSTEMS	00		8	0	8											1	1	1	1	1	1	1	1			\vdash	\vdash	+-		0
MK 53 DLS (SCN)	00		3	0	3											•	•	•		•	•		•	1	1	1		 		0
MK 53 DECOY LAUNCH SYSTEMS	01		8	0	8				Α												1	1	1	1	1	1	1	1		0
MK 53 DLS (SCN)	01		3	0	3				Α																				1	2
MK 53 DECOY LAUNCH SYSTEMS	02		8	0	8																Α									8
MK 53 DLS (SCN)	02		4	0	4																Α									4
MK 234 NULKA DECOY (Non-U.S.)	97		274	235	39	6	5	5	5	6	6	6																		0
MK 234 NULKA ELEC. DECOY (U.S.)	98/99		56	10	46	9	6	6	6	2	2	2	3	5	5											<u> </u>		<u> </u>		0
MK 234 NULKA ELEC. DECOY (U.S.)	00		68	0	68								10	10	8	8	8	8	8	8			_		_	<u></u> '	L_	-	_	0
MK 234 NULKA ELEC. DECOY (U.S.)	01 02		95	0	95				Α											4	6	5	6	5	6	5	6	5	6	41
MK 234 NULKA ELEC. DECOY (U.S.)	02		46	0	46																	Α						+		46
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ITEM / MANUFACTURER	F Y	S V	Q T	E	B A		2002												R YE		03	1	1		1		_			R
	ī	C	Ϋ́	Ĺ	L	0	N	D E	J	F	M	A P	M	J	J U	A U	S	0	N O	D E	J	F	M	A P	M	J	J	A U	S E	A
						C T	O V	C	A N	E B	A R	R	A Y	N	L	G	E P	C T	V	C	A N	E B	A R	R	A Y	U N	L	G	P	L
MK 53 DLS (SCN)	01		3	1	2	1	1	_	1			1														-	\vdash	-		1
MK 53 DECOY LAUNCH SYSTEMS	02		8	0	8		<u> </u>		1	1	1	1	1	1	1	1										+		+		0
MK 53 DLS (SCN)	02		4	0	4					-							1													3
MK 53 DECOY LAUNCH SYSTEMS	03		12	0	12				Α																					12
MK 53 DLS (SCN)	03		4	0	4				Α												F۱	Y04 -	FY07	ON	NEX.	T PAC	ЗE			4
																										<u> </u>	<u> </u>			
MK 234 NULKA ELEC. DECOY (U.S.)	01		95	50	41	5	4	5	4	5	4	5	4	5	_									.		 '	—	—		0
MK 234 NULKA ELEC. DECOY (U.S.) MK 234 NULKA ELEC. DECOY (U.S.)	02 03		46	0	46				-	۸					6	5	6									 	<u> </u>	+		29
INTER 234 NULKA ELECTOECOY (U.S.)	U3		40	0	40		1	1		Α	1		1		Ī	1		Ī				1	1	I	1	1 '	1		1	40

Remarks: Decoy Production rates are based on a combined United States, Australia and Canada production schedule. Australia and Canada are not buying US Ship system. Presently no other countries are buying this system or decoy.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST 311/244 ITEM NO PAGE

6

FY 1998/99 BUDGET PRODUC			DULE	, P-2	1													DA	ГΕ		FE	BRI	UAR	Y 20	002					
APPROPRIATION/BUDGET ACTOMICS OF THE PROCUREMENT,													Wea	apon	Sys	stem		P-1	ITE						_	y sy	STE	MS/A4	1\/\/	
OTTIER TROOMEMENT,	IIA	•					Pro	duct	ion I	Rate					Pro	cure	mer	nt Le	adtii									10//		
		Man	ufactu	ırer's						10.10		AL	T Pi	rior	AL	T Af	ter		nitia	al	R	eorc	ler				Τ	Un	it of	
Item	1	Name	and L	ocatio	n	MS	SR	1-8	8-5	MΑ	λX	to	Oct	: 1	(Oct 1	l	Mt	fg P	LT	M	fg P	LT		Tota	l		Mea	sure	•
MK 53 DECOY LAUNCH SYSTEM		Sech	an, P	4		9)			18	3					6			14			14								
MK 234 NULKA ELECTRONIC DECOY		BAeS	S, Aus	tralia		66	6			192	2					6			12			12								
																											↓			
																											<u> </u>			
			I							FISCA	AL VE	AD 0	004									FIC	241.1/	EAR	2005		<u> —</u>			
ITEM / MANUFACTURER	F	s	Q	D	В	2	2003			FISC	AL YE			DΔR '	VΕΔΡ	2004	L					F15(2005 AR Y	=ΔR ?	2005			l
TEM, MAROLAGIONER	Y	V	T	E	A	0	N	D		F	М	A	M	J.I	J	A 2002	S	0	N	D	J	F	М	A	M	_AN 4	.000	Α	S	В
		С	Υ	L	L	C	O	Е	A	Е	Α	Р	Α	U	U	U	Е	С	0	Е	Α	Е	Α	Р	Α	U	U	U	Е	A L
						Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Ĺ
MK 53 DLS (SCN)	02		4	1	3	1	1	1																				<u> </u>		
MK 53 DES (SCN) MK 53 DECOY LAUNCH SYSTEMS	02		12	0	12	1	1	1		1	2	1	2	1	2	1	2										├	\vdash		0
MK 53 DLS (SCN)	03		4	0	4							-						1	1	1	1						-	+		0
MK 53 DECOY LAUNCH SYSTEMS	03		12	0	12				Α									-	1	-	'	1	2	1	2	1	2	1	2	0
MK 53 DLS (SCN)	04		4	0	4				A													'		l '				+		4
MK 53 DECOY LAUNCH SYSTEMS	05		12	0	12																Α						 	+		12
MK 53 DLS (SCN)	05		1	0	1																Α							 		1
MK 234 NULKA ELEC. DECOY (U.S.)	02		46	17	29	5	5	5	5	4	5																<u> </u>			
MK 234 NULKA ELEC. DECOY (U.S.)	03		40	0	40							4	4	4	4	4	5	5	3	4	3						<u> </u>			0
MK 234 NULKA ELEC. DECOY (U.S.)	04		63	0	63					Α												5	6	5	6	5	6	6	6	18
MK 234 NULKA ELEC. DECOY (U.S.)	05		90	0	90																	Α					Щ			90
ITEM / MANUFACTURER	_		Q	D	В					FISCA	AL YE			D.A.D.	VE 4 D							FISC		EAR		- 4 D (
HEW/WANDPACTOREK	F Y	S V	T	E	A		2005									2006						ı			AR Y	EAR 2	2007			В
	'	C	Ý	L	Ĺ	0	N	D	J	F	M	Α	M	J	J	A	S	0	N	D	J	F	M	Α	M	J	J	A	S	A
				_		C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	L
MK 53 DLS (SCN)	04		4	0	4	1	1	1	1				_																	
MK 53 DECOY LAUNCH SYSTEMS	05 05		12 1	0	12 1					1	2	1	2	1	2	1	2		4								-	—		0
MK 53 DLS (SCN) MK 53 DECOY LAUNCH SYSTEMS	06		13	0	13				Α										1			1	2	1	2	1	2	1	2	1
MK 53 DECOY LAUNCH SYSTEMS	07		11	0	11				^												Α	'		-		-		+-		11
			l	Ť																								<u> </u>		
MK 234 NULKA ELEC. DECOY (U.S.)	04		63	45	18	4	5	4	5																					
MK 234 NULKA ELEC. DECOY (U.S.)	05		90	0	90					7	8	7	8	7	8	7	8	7	8	7	8						<u> </u>	1		0
MK 234 NULKA ELEC. DECOY (U.S.)	06		89	0	89					Α												8	8	7	8	7	8	8	8	27
MK 234 NULKA ELEC. DECOY (U.S.)	07		79	0	79																	Α					<u> </u>	<u> Ш</u>		79

Remarks: Decoy Production rates are based on a combined United States, Australia and Canada production schedule. Australia and Canada are not buying the US Ship system. Presently no other countries are buying this system or decoy.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST 311 / 244 ITEM NO PAGE

UNCLASSIFIED

			BUDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:			
				P-	40				•		FEBRUARY 20	002
APPROPRIATION/BUI	DGET ACTIVIT	Υ					P-1 ITEM NOM	IENCLATURE				
OTHER PROCURE	EMENT, NA	/Y	BA-4 ORDN	ANCE SUPP	ORT EQUIPM	IENT	SURFACE T	RAINING DE	VICE MODIF	ICATIONS	BLI; 566000	SBHD; 84TS
Program Element for C	ode B Items:						Other Related	Program Elemer	nts			
	Prior	ID									То	
	Years	Code		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY												
COST												
(In Millions)	N/A			\$7.5	\$7.2	\$6.6	\$5.0	\$4.7	\$9.2	\$9.7		\$50.0
SPARES COST												
(In Millions)				\$0.2	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1		\$0.8

(566000) This line provides funds to modify/upgrade training devices to maintain systems at Fleet configuration and to enhance training capability.

(TS001) CARRY-ON COMBAT SYSTEM TRAINER (COCST) COCST effort will provide a portable Battle Force Tactical Training (BFTT)/Generic Navy Stimulator/Simulator (GNSS) training capability for those ships not programmed to receive the BFTT/GNSS capability. Funding to complete COCST procurement was provided in FY 99 and FY 00. These systems will provide a portable BFTT/GNSS training capability for those ships not programmed to receive the BFTT/GNSS capability.

(TS004) SURFACE TRAINING DEVICE MODS Provides funding for surface warfare minor modifications. These modifications are improvements/upgrades to in-service surface training systems identified by the program offices and training activities, and are approved by the Resource Sponsor. Modifications are required to meet safety standards, keep training systems compatible with equivalent changes made to fleet operational equipment, and to enhance training capabilities. These modifications support the 300+ fielded Surface training systems and their concurrency with fleet operational configuration.

- o Funding is provided annually for modifications to the Device S14A13 Tactical Advanced Simulated Warfare Integrated Trainer (TASWIT) applicable to the Multi-Mission Team Trainer (MMTT).
- o Funding is provided from FY98 through FY01 for upgrade of the Mobile Combat Systems Trainer (MCST) Device 20B5 for application to the MK 92 Mod 6 Fire Control System (FCS) applicable to COCST.
- o Funding was provided in FY00 and out for procurement/installation/upgrade of the Navy's standardized shore based team tactics trainer applicable to the MMTT.
- o Funding was provided in FY00 for modification of AN/USQ-T46 BFTT Systems to incorporate DoD mandated High Level Architecture (HLA) standards/functionality.

(TS006) BFTT HIGH LEVEL ARCHITECTURE (HLA) Funding updates the requisite printed circuit cards for existing AN/USQ-T46(V) BFTT Systems in order to utilize HLA vice DIS protocols.

(TS007) MULTI-MISSION TEAM TRAINER (MMTT) Funding consolidates the software functionality of the Device S14A13 TASWIT and the Device 20F15 TACDEW SG&C and updates the systems at SWOS, at the Fleet ASW Training Centers LANT and PAC, and at the Fleet Combat Training Centers LANT and PAC.

P-1 SHOPPING LIST

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	WEAPONS SYSTEM C	OST AN	IALYSIS			Weapon Sy	stem							DATE:	
	P-5													FEBRUA	RY 2002
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	IOMENCLATU	RE/SUBHEAD)					
	rocurement, Navy RDNANCE SUPPORT EQUIPMENT						SUBEAC	E TRAININ	G DEVICE	MODIFIC	ATION BLI:	566000 SB	PTV8/TR		
BA 4. 0	NONANGE GOLL GKLEGGII MENT		TOTAL COS	T IN THOUS	SANDS OF DO	LLARS	JOOINI AC	LINAIM	O DEVICE	WODII 107	ATION BEI.	300000 01	110.0410		
							1	= 1,000,1		T	5 1/ 2002		ı		
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2001			FY 2002			FY 2003	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SURFACE MODS (N75/N76)														
TS001	CARRY-ON COMBAT SYSTEM														
	TRAINER (COCST)														
TS004	SURFACE TRAINING DEVICE MODS														
	Surface Minor Mods (N75)								228			231			237
	Surface Minor Mods (N76)								4,489			5,023			4,372
TS006	BFTT HIGH LEVEL ARCHITECTURE														
	(HLA) (N76)														
TS007	MULTI-MISSION TEAM TRAINER						Var		2,064	Var		1,948	Var		1,948
	(MMTT) (N76)														
	NRE (S/W Migration to Windows NT)								750						
	SUBTOTAL (N75)								228			233			238
	SUBTOTAL (N76)								7,303			6,971			6,320
DD 500::	0440 HIN 00	D 4 0''	ODDING HE	<u> </u>			<u> </u>		7,531			7,202			6,557
DD FORM	2446, JUN 86	P-1 SH	OPPING LIST									CLASSIFICA	TION:		

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BUDGET PROCURE	MENT HISTO	ORY AND F	PLANNING EXHIBIT	Γ (P-5A)		Weapon System		A. DATE		
									1	2002
B. APPROPRIATION/BUDGE					C. P-1 ITEM NO	MENCLATURE			SUBHEAD	
Other Procurement,	-				SURFACE TRA	INING DEVICE MODIFICATI	ONS			
BA-4: ORDNANCE	SUPPORT	EQUIPM	ENT		BLI: 566000				SBHD:84T	
Cost Element/	QUANTITY	LINIT	LOCATION	DED ICCLIE	CONTRACT	CONTRACTOR	AMADD	DATE OF	SPECS AVAILABLE	DATE
FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	NOW	REVISIONS AVAILABLE
TS004-FY-01-03	Var	TBD	NAWCTSD Orlando, Fl	Various	Various	Various	Various	Various	Yes	N/A
TS007 - FY01 MMTT	Var	2,000	NAWC TSD Orlando, FL	N/A	N/A	N/A	N/A	03/01	YES	N/A
TS007 - FY02			NAWC TSD							
MMTT	Var	1,948	Orlando, FL	N/A	N/A	N/A	N/A	03/02	YES	N/A
TS007 - FY03 MMTT	Var	1,948	NAWC TSD Orlando, FL	N/A	N/A	N/A	N/A	03/03	YES	N/A
D. REMARKS										

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	SIMULATO	R AND TRAINI	NG DEVICE	JUSTIFICA ⁻	TION (\$000)		Date		Feb 2002	
Appropriation	n P-1 Line Item	Weapon System (i	f applicable)		Equipment No	menclature	-	PE		
	566000				Surface Trai	ning Device N	/lodifications	0804731N		
Fin Plan	Prior Years		FY01	FY02	FY03	FY04	FY05	FY06	FY07	TOTAL
Quantity	VAR		VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR
Proc	\$22,456		\$7,531	\$7,202	\$6,557	\$4,988	\$4,704	\$9,165	\$9,736	\$72,339
RDT&E				•						
O&S										

(L/I 566000) This line provides funds to modify/upgrade training devices to maintain systems at Fleet configuration and to enhance training capability.

(TS001) CARRY-ON COMBAT SYSTEMS TRAINER (COCST) COCST effort will provide a portable Battle Force Tactical Training (BFTT)/Generic Navy Stimulator/Simulator (GNSS) training capability for those ships not programmed to receive the BFTT/GNSS capability. Funding to complete COCST procurement was allocated in FY 99 and FY 00. These systems will provide a portable BFTT/GNSS training capability for those ships not programmed to receive the BFTT/GNSS capability.

(TS004) SURFACE TRAINING DEVICE MODS Provides funds for surface warfare minor modifications. These modifications are improvements/upgrades to in-service surface training systems identified by the program offices and training activities, and are approved by the Resource Sponsor. Modifications are required to meet safety standards, keep training systems compatible with equivalent changes made to fleet operational equipment, and to enhance training capabilities. These modifications support the 300+ fielded Surface training systems and their concurrency with fleet operational configuration.

(TS005) BATTLE FORCE TACTICAL TRAINING ELECTRONIC WARFARE TRAINER (BEWT) FY 99 Congressionally mandated funding was provided for the production and installation of BEWT. BEWT provides an Electronic Warfare (EW) system operator and team training capability.

(TS006) BFTT HIGH LEVEL ARCHITECTURE (HLA) Funding updates the requisite printed circuit cards for existing AN/USQ-T46(V) BFTT Systems in order to utilize HLA vice DIS protocols.

(TS007) MULTI-MISSION TEAM TRAINER (MMTT) Funding consolidates the software functionality of the Device S14A13 TASWIT and the Device 20F15 TACDEW SG&C and updates the systems at SWOS, and at the Fleet ASW Training Centers LANT and PAC, and at the Fleet Combat Training Centers LANT and PAC.

EXHIBIT 43A
P-43 Simulator & Training Device Justification

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EXHIBIT P-43	3									DATE:								
SIMULATO	R AND TRA	AINING	DEVICE	JUSTIFIC	ATIO	N				FEB 02								
	ation/P-1 Line														IOC D	ate		
Other Procu	irement Nav	y/Surfac	ce Trainiı	ng Device I	Modif	ication												
Training			Ready for	Average						•								
Device		Delivery	Training	Student	Pric	or Years			F١	Y 2001	FΥ	2002	FY	2003	To C	omplete	To	otal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Y-ON COMBA																	
COCST	First Unit	01/00		N/A	3	7,722											3	7,722
	Second Unit 1/2		09/00	N/A														
	Second Unit 1/2		09/00	N/A														
	Third Unit 1/2		01/01	N/A														
	Third Unit 1/2	10/00	01/01	N/A													1	
																	1	
TS004 SURF	ACE TRAININ	G DEVIC	E MODS															
VAR			VAR	N/A	VAR	11,234			Var	4,717	Var	5,254	Var	4,609			VAR	25,814
	<u> </u>		<u> </u>														1	
	LE FORCE TA	CTICAL	TRAINING					NER (BEV I	VT)								10	4 000
BEWT	VAR			N/A	10	1,000											10	1,000
																	1	
TS006 BFTT	HIGH LEVEL	ARCHITE	CTURE (I	HLA)														
				N/A	36	2,500											36	2,500
TS007 MULTI	I-MISSION TE	AM TRA	INER (MM															
				N/A					Var	2,814	Var	1,948	Var	1,948			VAR	6,710
																	1	
																	1	
Total					49	22,456	0	0	0	7,531	0	7,202	0	6,557	0	0	VAR	43,746
																	1	
Description								•						•				

UNCLASSIFIED

		В	SUDGET ITEM JUSTIFICA	TION SHEE	T			DATE:			
			P-40						February 20	002	
APPROPRIATION/BUD	GET ACTIVI	TY				P-1 ITEM NOM	MENCLATURE				
OTHER PROCURE	MENT, NA	VY/BA-	4			SUBM	ARINE TRAI	NING DEVIC	E MODS/BL	I: 5661/SBHD): 84TD
Program Element for Co	ode B Items:					OTHER RELA	TED PROGRA	M ELEMENTS			
	Prior	ID								То	
	Years	Code	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY											
EQUIPMENT COST											
(In Millions)			\$33.6	\$20.6	\$17.3	\$14.5	\$32.4	\$30.1	\$19.0		\$167.5
SPARES COST											
(In Millions)											

PROGRAM DESCRIPTION/JUSTIFICATION:

(L/I 5661)

This line provides funds to modify/upgrade training devices to keep them compatible with equivalent changes made to Fleet operational equipment and to enhance trainer systems capabilities.

(TD002) SUBMARINE TRAINING DEVICE MODS

Provides funding for minor modifications which are upgrades to submarine training systems which are centrally managed systems. These improvements/upgrades are required to keep training systems compatible with equivalent changes made to fleet operational equipment and to change trainer capabilities to meet emergent training requirements. In FY01, congress provided additional funds to procure technical alternatives for data conversion of existing Technical Manuals (TMs) to an Intelligent Graphics format, which will provide meaningful data needed for production conversion of subsequent Submarine Technical Manuals to this new format. This effort has been selected as a CNO pilot project to demonstrate how improving IETM functionality results in improved Sailor-based maintenance.

(TD003) SUBMARINE MULTI-MISSION TEAM TRAINER/COMBAT CONTROL SYSTEM (SMMTT/CC)

To achieve desired submarine force readiness levels, it is necessary to construct highly sophisticated shorebased training facilities capable of training submarine combat system team personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment.

The Combat Control System (CCS) MK 1 and CCS MK 2 are installed, or being installed, on SSN and SSBN (TRIDENT) Class submarines. CCS MK 1 submarines will receive Basic kits (initial update of CCS MK 1) and CCS MK 2 Block changes.

CCS MK 2 DO Block 1 Program includes Tomahawk Block III, Harpoon Block 1C, ADCAP (Advanced Capability torpedo) mods, NTCSA (Navy Tactical Command System Afloat, and ATWCS (Advanced Tomahawk Weapon Control System).

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BUDGET ITEM JUSTIFICATION SHEET	DATE:
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APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD003) SUBMARINE MULTI-MISSION TEAM TRAINER COMBAT CONTROL SYSTEM (SMMTT/CC) (Continued)

The CCS MK2 tactical program is to be upgraded to include CCS MK 2 Block 1 C. This includes Combat Display Console (CDC) color/landscape, CPU parallel processor removal, AN/UYK-44 removal, Mk 23 Graphic Plotter OER, additional ADCAP upgrades, and FTAG (Fleet Tactical Advisory Group) improvements. CCS MK 2 Block 1 also introduces the Advanced Tomahawk Weapon Control System (ATWCS), and Tactical Tomahawk Weapons Control System (TTWCS), NTCS-A and Tomahawk Block Improvement Program (TBIP) which consists of Tomahawk Weapon improvements.

The Submarine Multi Mission Team Trainer (SMMTT) Phases 1, 2, 3 program replaces the proprietary mainframe computer system by re-hosting functions on industry standard Local Area Network (LAN) workstations. The mainframes can no longer be upgraded due to service life. The SMMTT modification applies to both the CCS trainers and the acoustic trainers and will occur in three distinct phases. SMMTT Phase 1 provides partial offload of the trainer-unique-equipment (TUE) software and provides additional processing power through the use of independent workstations. SMMTT Phase 2 completes the trainer-unique software offload and enables further enhancements. SMMTT Phase 3 will replace all MIL Standard hardware with commercial emulation hardware, enabling platform independence and wide area network capability. The use of open architecture trainer systems allows for the continuous growth of functional flexibility ultimately leading to employment training conducted for any submarine CCS. Plans are established to likewise upgrade submarine tactical systems to an open architecture, and the trainers will be compatible with the tactical interfaces. Modifies functionality of the Submarine Tactical Visual Training System (STVTS) to provide common imaging training for CCS trainers.

FY01 Procures 6 items: Provides upgrades to the COTS TUE in the SMMTT CC Engineering Procurement Model (EPM). Modifies software and hardware of the CC EPM to provide SMMTT weapons emulation, and procures two SMMTT upgrade kits to support CCS Mk2 training. Modifies the CC trainer STVTS to provide common imaging training for CCS trainers, which provides two kits to training sites.

FY02 Procures 5 items: Provides upgrades to SMMTT non-weapons software. Procure two SMMTT upgrade kit to support CCS MK2 training. Provides STVTS upgrades, with enhanced databases, to two training sites.

FY03 Procures 3 items: Provides upgrades to support the Rapid COTS Insertion (RCI) system to the SMMTT. Procures one SMMTT upgrade kit to support CCS MK2 training. Provides STVTS upgrades to one training sites.

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APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD005) SUBMARINE MULTI-MISSION TEAM TRAINER /ACOUSTIC (SMMTT/A)

The AN/BQQ-5 Series Sonar Systems are installed aboard SSN Class submarines. The Submarine Acoustic Trainers, simulate the digital data processing and graphic displays of the associated tactical system. The Tactical Acoustic Rapid COTS (commercial-off-the-shelf) Insertion (ARCI) Phased upgrades impact the AN/BQQ5E(V) systems. The Advanced Processing Builds (APB) impact the acoustic trainers. The SMMTT upgrades will be applied to selected acoustic, team trainers.

The SMMTT acoustic modifications support training for enlisted and officer pipelines. The SMMTT provides individual operators and combat teams the opportunity to train ashore, prior to, and between deployments. The shore based training provides a means of maintaining team proficiency in stand alone or in combined team mode when tied to Combat System Team Trainers.

FY01 Procures 2 items: Upgrades the EPM COTS with APB, and provides modifications to the Acoustic SMMTT, ARCI Phase III EPM to support Acoustic Tactical software.

FY02 Procures 3 item: Two SMMTT trainer site kits to support ARCI-III functions. Upgrades the EPM APB functionality for ARCI-II/III.

FY03 Procures 2 items: One SMMTT trainer kit to support ARCI-III; modifies the SMMTT Acoustic EPM to support the most recent APB in the SMMTT architecture.

(TD006) SUBMARINE COMMON BASIC OPERATOR TRAINER (CBOT)

The purpose of these devices is to provide pipeline training to submarine force personnel who require basic and advanced operator training to establish their required level of operator competence. These devices train individual operators on the CCS MK 1/ MK 2, and AN/BSY-1 by supplementing classroom instructions with dynamic training exercises. Through the use of these training devices, the student obtains direct, interactive experience in Command, Weapon, Target Motion Analysis (TMA), and Over-The-Horizon (OTH) operations in order to develop the skills required for effective command and control operations.

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APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD006) SUBMARINE COMMON BASIC OPERATOR TRAINER (CBOT) Continued

These devices provide an environment substantially equivalent to that found onboard ship, thus enabling students to develop and maintain the combat control expertise necessary to support Fleet operations. FY-90 established the requirement to provide advanced operator training for CCS MK 2 to support SSN 688, SSN 751 (AN/BSY-1), and TRIDENT SSBN (OHIO) Class submarines. The Fire Control Submarine and IUSS Training Requirements Review (SITTR) of 6/92 established the requirements for Common Basic Operator Trainers (CBOT) to support revised A-School training pipelines.

FY01 Procures 4 items: Procures modifications for the CBOT EPM and three training site CBOTs with the CCS MK2 Block 1C target motion analysis (TMA) enhancements.

FY02 Procures 4 items: Modifications for the CBOT EPM and three training site CBOTs with CCS Mk2/Mk1 enhancements requested by the Fleet.

FY03 Procures 4 items: Modifications for the CBOT EPM and three training site CBOTs with CCS Mk2 Block 1C enhancements to allow running on simple COTS displays in any electronic classroom.

(TD011) SUBMARINE MULTI-MISSION TEAM TRAINER/(SMMTT) AN/BSY-1 TRAINER IMPROVEMENTS (SMMTT BSY-1)

AN/BSY-1 trainers support shorebased training for crews of SSN 751 Class submarines fitted with the AN/BSY-1 integrated Combat Control/Acoustic (CC/A). CC/A Team Trainers support subteam training in combat control and acoustics as well as full combat system team training. The SMMTT program will occur in two phases for the AN/BSY-1 Team Trainer: SMMTT Phase 1 will provide BSY-1 trainers with ARCI/APB acoustic and combat control SMMTT functionality, and Phase 2 will replace the obsolete mainframe with a distributive network system.

FY01 Procures 3 items: Modifies the SMMTT EPM to match the AN/BSY-1 ARCI-IV Multi Purpose Console functions and procures two trainer site upgrade kits.

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OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD012) SUBMARINE BATTLE FORCE TACTICAL TRAINING (BFTT) DEVICE MODS

The requirement for the Submarine BFTT was established by the BFTT Operational Requirement Document (ORD) No. 2U648877 of 13 Mar 1992. The Submarine BFTT device consists of a carry-on unit that will provide the CO/OOD simulated tactical display (COSTD) depicting the position and modes of each participant and target in the BFTT scenario. This device will interface with and interpret the BFTT scenario and make use of the Tactical Advanced Simulated Warfare Integrated Trainer (TASWIT). The Submarine BFTT program will modify TASWIT software to reflect submarine combat systems displays and the interface with BFTT. It will consist of a computer and interface equipment with software designed to interface with and interpret the BFTT system, and to receive and transmit tactical data using own ship's communications equipment. This device is in tended to exercise the communications team and the CO/OOD, but not to provide training for the remaining submarine sensor operators and Combat System Team.

FY01 Procures one unit.

FY02 Procures High Level Architecture (HLA) modifications to COSTD.

TD014 VIRGINIA CLASS SSN 774 DEVICES

Funding for the procurement of Virginia Class (SSN 774) trainers.

(TD6IN) INSTALLATION OF EQUIPMENT

Funding is for the installation of trainers, installation support for trainers, and installations in other shore facilities.

Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.

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	WEAPONS SYSTEM C P-5	OST AN	IALYSIS		Weapon	System							DATE: February :	2002
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy				ID Code		NOMENCLATU			10.4.71.0.10.10.11	21. 5004/6			
BA 4: O	RDNANCE SUPPORT EQUIPMENT		TOTAL COS	T IN THOUSAI	NDS OF DOLLARS	SUBMAR	RINE TRAIN	ING DEVIC	E MODIF	ICATIONS/I	BLI: 5661/S	SBHD: 84	ID	
COST	ELEMENT OF COST	ID Code	Prior Years				FY 2001			FY 2002			FY 2003	
CODE		Code	Total Cost			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINE WARFARE (N77)													
TD002	SUBMARINE TRAINING DEVICE MODS Minor Mods						2,769	2,769		1,267	1,267		1,921	1,921
TD003	SMMTT/CC	A					8,857			7,429			6,121	
	Modifications					1	2,924	2,924	2	350	700	1	350	35
	Modifications					1	1,815	1,815	1	3,528	3,528	1	3,577	3,57
	Modifications					2	810	1,620	2	635	1,270	1	535	53
	Modifications					2	350	700						
	Tech Support							1,798			1,931			1,659
TD005	SMMTT/A	A					14,798			9,804			6,581	
	Modifications					1	7,208	7,208	2	1,000	2,000	1	2,900	2,900
	Modifications					1	3,200	3,200	1	5,300	5,300			
	Modifications											1	1,936	1,936
	Tech Support							4,390			2,504			1,74
TD006	SUB COMN BASIC OPER TRAINER	A					628			652			2,000	
	Modifications					4	157	628	4	163	652	4	500	2,000
	Continued on Next Page													
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	WEAPONS SYSTEM CO P-5	OST AI	NALYSIS			Weapon S	ystem							DATE: February	2002
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy RDNANCE SUPPORT EQUIPMENT					ID Code		IOMENCLATU			-ICATIONS	/BLI: 56610)/SUBH: 8	B4TD	
			TOTAL COS	T IN THOU	ISANDS OF D	OLLARS	100								
COST CODE	ELEMENT OF COST	ID Code						FY 2001			FY2002			FY2003	
			Total Cost				Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
	SUBMARINE WARFARE (N77) Continued														
TD011	SMMTT AN/BSY-1 TRAINER	Α						6,429							
	Modifications						2	2,778	5,556						
	Modifications Tech Support						1	617	617 256						
	теся сирроп								230						
TD012	SUBMARINE BAT FORCE TACT TRNG							107			200				
	Carry-On COSTD						1	107	107	1	200	200			(
TD014	SSN 774														
	Modifications														
	Modifications														
	Modifications														
	TOTAL BLI 566100							33,588			19,352			16,623	
TD6IN	INSTALLATION (Non-FMP)								0			1,217			64
	TOTAL BLI 566106							0			1,217			641	
	Ourthurs I form annuing Born	<u> </u>							00.500			00.500			47.00
DD FORM	Continued from previous Page 2446, JUN 86	P-1 SF	IOPPING LIS	l T	1	1	0		33,588	L		20,569 CLASSIFICA		L	17,26

CLASSIFICATION:

BUDGET PROCURE	EMENT HIST	ORY AND	PLANNING EXHII	BIT (P-5A)		Weapon System		A. DATE Februa	ry 2002	
B. APPROPRIATION/BUDG	ET ACTIVITY				C. P-1 ITEM NOM	IENCLATURE			SUBHEAD	
Other Procurement										
BA 4: ORDNANCE S		QUIPMEN	T		SUBMARINE	TRAINING DEVICE MC	DIFICA	TIONS		84TD
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISION
	QUANTITY									
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABL
		(000)								
FISCAL YEAR (01)										
TD002 Intel Graphics	var	2,500	NAVSEA	n/a	WR/RCP	NUWC Kpt	Jun-01	Sep-01	Yes	
TD003 SMMTT/CC										
Weapons	1 1	2,924	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Aug-03	YES	
COTS EPM		1,815	NAVSEA	N/A N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Aug-03 Aug-02	YES	
CCS STVTS	2	810	NAVSEA	N/A	WR	NAWC TSD ORLANDO	Jan-01	Jan-03	YES	
CCS Mk2 B1C kits	2	350	NAVSEA	N/A N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Mar-02	YES	
CCS WKZ BTC KIIS	2	350	NAVSEA	IN/A	VVK	NOWCDIV NEWPORT, KI	Jan-01	IVIAI-UZ	153	
TD005 SMMTT/A										
ARCI-III EPM	1	7,208	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Aug-03	YES	
COTS	1	3,200	NAVSEA	N/A	WR/RCP	NSWC/CD	Jun-01	Aug-02	YES	
ГD006 СВОТ										
TMA	4	157	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Apr-02	YES	
						,				
TD011 SMMTT/BSY1	_									
ARCI-IV Kits	2	2,778	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Mar-02	YES	
ARCI-IV MPCS	1	617	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Jan-02	YES	
TD012 Sub BFTT		407	NIANA/O TOD	N1/A	WD	NAMOTOR ORI ANDO FI	F-1- 04	No. 04	VEO	
COSTD	1	107	NAWC TSD	N/A	WR	NAWCTSD ORLANDO, FI	Feb-01	Nov-01	YES	
D. REMARKS							<u> </u>			<u> </u>
7. NEWANNO										

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BUDGET PROCURE	MENT HISTO	ORY AND	PLANNING EXHIB	BIT (P-5A)		Weapon System		A. DATE Februa	ry 2002	
3. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement,										
BA 4: ORDNANCE S	UPPORT EC	QUIPMEN	<u>IT</u>	•	SUBMARINE	TRAINING DEVICE MO	DIFICAT	TIONS		84TD
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISION
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLI
		(000)								
FISCAL YEAR (02)										
TD003 SMMTT/CC	_									
Mk2 B1C Kit	2	350	NAVSEA NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-02	Nov 02	YES YES	
Mk2 B1C Non-Wep CCS STVTS	1 2	3,528 635	NAVSEA NAVSEA	N/A N/A	WR WR	NUWCDIV NEWPORT, RI NAWCTSD ORLANDO, FI	Jan-02 Jan-02	Jan 05 Sep 03	YES	
CC3 31 V 13	2	033	INAVSEA	IN/A	VVIC	NAWC13D OKLANDO, FI	Jan-02	Sep 03	TES	
TD005 SMMTT/A										
ARCI Kits	2	1,000	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Feb-02	Feb-03	YES	
ARCI-II/III APB	1	5,300	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Feb-02	Feb-03	YES	
D006 CBOT										
MK1/2 Enhancements	4	163	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-02	Dec-02	YES	
						,				
TD012 Sub BFTT										
COSTD HLA	1	200	NAWC TSD	N/A	WR	NAWCTSD ORLANDO, FI	Jan-02	Nov-02	YES	
							ĺ			

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BUDGET PROCUREM	IENT HISTO	ORY AND	PLANNING EXHIE	BIT (P-5A)		Weapon System		a. date Februa i	ry 2002	
3. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NOW	IENCLATURE			SUBHEAD	
Other Procurement, N	lavy									
BA 4: ORDNANCE SU		QUIPMEN	T		SUBMARINE	TRAINING DEVICE MC	DIFICAT	TONS		84TD
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISION
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABL
1100/12 12/11		(000)	0.100	57.1.2		7.1.1.2.2.3.7.1.1.3.1.	5,	522.72.7.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FISCAL YEAR (03)		(000)								
D003 SMMTT/CC										
Mk2 B1C #7	1	350	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-03	Feb-02	YES	
RCI	1	3,577	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-03	Jan 05	YES	
CCS STVTS	1	535	NAVSEA	N/A	WR	NAWC TSD	Jan-03	Feb-05	YES	
TD005 SMMTT/A										
ARCI-III Kits	1	2,900	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Feb-03	May-04	YES	
SMMTT APB	1	1,936	NAVSEA	N/A	WR/RC	NSWC/CD	Jan-03	Aug-05	YES	
TD006 CBOT										
MK2 ECR Enhancements	4	500	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-03	Dec-03	YES	
WINZ LON ETHICHOCHICHS	7	000	TV/VOL/V	14/7	****	NOWODIV NEW OKI, KI	our oo	DCC 00	120	
						1				

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 118 PAGE NO. 10 UNCLASSIFIED

UNCLASSIFIED

TIME PHASED REQUIREMENT SCH P-23	HEDULE									GET AC		y/BA-	4	Sub	omai	NOMEN	Traiı		Dev	ices	i	c. da		ary	200	2				
			FY 20	00			FY 20	01		1	FY 200)2			FY 20			I	FY 200)4			FY 20			Ī	FY 20	06		LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)																													
SCHOOLS/OTHER TRAINING	(P) (P)		0				16				13				9															
OTHER	(P)																													
TOTAL PHASED REQ	(C)	0	0	0	0	0	16	16	16	16	29	29	29	29	38	38	38													0
ASSETS ON HAND	(BP)																													
DELIVERY FY 98 & PRIOR	(P)																													
FY 99 & PRIOR	(P)																													
FY 00	(P)																													
FY 01	(P)					0	16	0	0																					
FY 02	(P)									0	13	0	0																	
FY 03	(P)													0	9	0	0													
FY 04	(P)																													
FY 05	(P)																													
FY 06	(P)																													
To Complete	(P)																													
TOTAL ASSETS	(C)	0	0	0	0	0	16	16	16	16	29	29	29	29	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	38	38	38	38	38	38	38	38	38	38	38	38
D. REMARKS		1	1	E.	<u> </u>	RQMT	(QTY)				TOTAL	RQMT		INSTA	LLED		HAND			98 & PF			UNF	JNDED	<u> </u>		1			
				1.	APPN	-										A5 U	F 6/1/99	9	UNL	DELIVE	KED					1				
					APPN	l -																				1				
				3.	PRO	CUREM	ENT LE	ADTIN	1E			ADMIN		<u> </u>	INITIA	AL ORD	ER		<u> </u>	Ī	REOR	DER				1				

DD for 2447, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO 118 PAGE NO 11

UNCLASSIFIED

				EMENTS SCH NSTALLATIO BA				M NOMENCLATUR			s/SUBH	: 84TD	DATE Febru	ary 2002	
		GET ACTIVITY ot, Navy / BA	-4					Installing Agen	t						
1ST QTF	?	2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			F	Y 2000			•		•		FY 2	2001	•		•
											16				
			F	Y 2002							FY 2	2003			
			13								9				

P-1 SHOPPING LIST

ITEM NO. 118

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CLASSIFICATION:

EXHIBIT P-43	XHIBIT P-43 IMULATOR AND TRAINING DEVICE JUSTIFICATION																									
			DEVICE	JUSTIFI	CATI	ON																Februa	ry 20	002		
	ation/P-1 Line									Weapon	Syste	m								IOC Date)					
	rement, Navy	y / LI: 5																								
Training																										
Device		Delivery		Student				2000		<u>/ 2001</u>		/ 2002		2003		/ 2004		Y 2005		/ 2006		Y 2007		omplete		otal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TD002 SUBM	I IARINE TRAIN	I NING DE	I VICE MOI	ns Os																						
				N/A					VAR	2,769	VAR	1,267	VAR	1,966												
	*****		.,						.,	2,.00	• • • • • • • • • • • • • • • • • • •	.,20.		1,000												
Total					0	0	0	0	0	2,769	0	1,267	0	1,966	0	0	0	0	0	0	0	0	0	0	0	6,002
										,		, •		,												-,

Description (TD002) SUBMARINE TRAINING DEVICE MODS

Provides funding for minor modifications which are upgrades to submarine training systems which are centrally managed systems.

These improvements/upgrades are required to keep training systems compatible with equivalent changes made to fleet operational equipment and to change trainer capabilities to meet emergent training requirements.

EXHIBIT P-43 DATE: SIMULATOR AND TRAINING DEVICE JUSTIFICATION February 2002 Appropriation/P-1 Line Item Weapon System IOC Date Other Procurement, Navy / LI: 5661 Training Ready for Average Delivery Device Training Student Prior Years FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 To Complete Total Date by Type Site Date Throughput Qty Cost TD003 SMMTT/CCS Weapons NUWC Npt 2,924 Aug-03 n/a n/a COTS EPM NUWC Npt Aug-02 1,815 n/a n/a STVTS #5 NSTCP Sdgo Jan-03 Jan-03 388 810 STVTS #6 TTF BGR May 03 May-03 312 810 B1C #3 NSS GRTN Apr-02 Jun-02 2,160 350 B1C #4 NSTCP PH Aug-02 Oct-02 2,016 350 B1C #6 TTF BGR Nov-02 Jan-03 312 350 Non Weps **NUWC Npt** Jan-05 n/a n/a 3,528 STVTS #7 STF Nor Sep-03 Sep-03 1,485 635 STVTS #1 NSTCP PH Nov-03 2,016 635 Nov-03 B1C #5 NSTCP Sdgo 350 Jul-02 Sep-02 540 B1C #7 STF Nor Feb-03 May-03 1,485 350 RCI NUWC Npt Jan-05 3,577 n/a n/a STVTS #2 NSS Grtn Feb-05 Feb-05 2,160 535 Total 0 7,059 5,498 4,462 0 17,019 0 14

Description

(TD003) SUB MULTI-MISSION TEAM TRAINER (CCS)

To achieve desired submarine force readiness levels, it is necessary to construct highly sophisticated shorebased training facilities capable of training submarine combat system team personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment.

EXHIBIT P-4	MULATOR AND TRAINING DEVICE JUSTIFICATION									DATE:												Februa	rv 20	າດວ		
	ation/P-1 Line		DEVICE	JUSTIFIC	JA I I	OIN				Weapon	Sycto	m								IOC Date		rebiua	y 20	JUZ		
	rement, Nav		261							vveapon	Cysic									IOO Date	•					
Training	irement, nav	y / Li. 50	Ready for	Average	l		l																			
Device		Delivery		Student	Pric	or Years	FY 2	2000	FY	2001	ΕV	2002	F١	2003	F١	Y 2004	F١	2005	F١	2006	F١	2007	To C	Complete		Total
by Type	ype Site Date Date Throughput Qty Cost Q								Qty	Cost		Cost	Qty	Cost	Qty				Qty				Qty			
TD005 SMM	MMTT / A Date Date Inroughput Qty Cost										,		,		,		,		,		,					
ARCI-III EPM COTS APB ARCI-II #6 ARCI-II/III	EPM LM TTF BGR NSTCP Sdgo	Aug-03 Aug-02 Sep-02 Jun-02 Feb-01	n/a n/a Jan-03 Sep-02 n/a	n/a n/a 388 540 n/a					1	7,208 3,200		1,000 1,000 5,300														
ARCI-II/III ARCI-III #7 APB S2	EPM LM STF Norva EPM tbd	Feb-01 Feb-03 Aug-05	n/a May-03 n/a	n/a 1,485 n/a							1	5,300	1 1	2,900 1,936												
Total					0	0	0	0	2	10,408	3	7,300	2	4,836	0	0	0	0	0	0	0	0	0	0	7	22,544

Description
(TD005) SUB MULTI-MISSION TEAM TRAINER/A
The AN/BQQ-5 Series Sonar Systems are installed aboard SSN Class submarines. The Submarine Multi Mission Team Trainer Acoustic simulates the digital data processing and graphic displays of the associated tactical system.

EXHIBIT P-4			DE\#0E	II IOTIFIO	A.T.I.O.					DATE:																
	OR AND TRA ation/P-1 Line		DEVICE	JUSTIFIC	ATIC	N N				Weapon S	`votor									IOC Date		Februa	ry 20	102		
			204							weapon	ysten	ı								IOC Date						
Training	rement, Nav	y / Li: 50	Ready for	Average				1								ı										
Device		Delivery		Student	Pri	or Years	FV	2000	ΕV	2001	ΕV	2002	ΕV	2003	FV	2004	ΕV	2005	ΕV	2006	ΕV	2007	To C	omplete	т	Γotal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost		Cost		Cost	Qty	Cost	Qty	Cost	Qty	Cost		Cost		Cost		
	COMN OPER			· · · · · · · · · · · · · · · · · · ·	α.,	000.	۵.,	0000	α.,		۵.,	0001	۵.,	0000	۵.,	0001	۵.,	000.	α.,	0000	۵.,	0000	۵.,	0000	۵.,	0001
TMA TMA MK 1/2 ENH MK 1/2 ENH MK 2 ECR MK 2 ECR	NUWC Npt NSS Grtn NUWC Npt	Apr-02 Apr-02 Apr-02 Dec-02 Dec-03 Dec-03 Jun-05 Jun-05 Sep-07 Oct-07 Nov-07 Sep-08	n/a May-02 n/a Jan-03 n/a Jan-04 n/a n/a Oct-07 Nov-07 Dec-07	n/a 1,000 n/a 1,000 n/a 1,000 n/a n/a 1,612 2,016 312 n/a					1 3	157 471	1 3	163 489	1 3	500 1,500												
COAET COAET COAET Total	NSS Nor NSS GTN NSS SD	Sep-08 Sep-08 Oct-08 Nov-08	Oct-08 Nov-08	1,485 1,612 540	0	0	0	0	4	628	4	652	4	2,000	0	0	0	0	0	0	0	0	0	0	12	3,280

Description
(TD006) SUB COMN COMMON BASIC OPERATOR TRAINER (CBOT)
The purpose of these devices is to provide pipeline training to submarine force personnel who require basic and advanced operator training.

EXHIBIT P-43										DATE:												•				
	OR AND TRA		DEVICE	JUSTIFIC	CATIC	N																Februa	ry 20	002		
	ation/P-1 Line									Weapon	Syste	m								IOC Date	Э					
	rement, Nav	y / LI: 56													1											
Training		Doliver	Ready for		Dei-	vr Vooro	EV/	2000		/ 2001		/ 2002		/ 2002		/ 2004		/ 200E		/ 200e		V 2007	Tor	`amplate	-	otal
Device by Type	Site	Delivery Date	Training Date	Student Throughput	Qty	or Years Cost		2000 Cost	Qty	/ 2001 Cost		/ 2002 Cost		/ 2003 Cost		/ 2004 Cost		Y 2005 Cost		′ 2006 Cost		Y 2007 Cost		Complete Cost		otal Cost
ру туре	Site	Date	Date	Tilloughput	Qty	Cost	Qty	COST	Qty	COSI	Qty	COST	Qty	COSI	Qty	Cost	Qty	COSI	Qty	Cost	Qty	Cost	Qty	COST	Qty	COST
TD011 SMM7	ГТ AN/BSY-1∃ I	MODIFIC	ATION																							
ARCI -IV #3		Nov-01	Feb-02	3,930					1	2,778																
ARCI -IV #4		Mar-02	Jun-02	2,016					1	2,778																
MPC	EPM LM	Jan-02	n/a	n/a					1	617																
																							,			
																							, ,			
Total					_	_	0	0	_	6 170	0		0	0	_	١ ،	0		_	0	0		0		2	6 170
rotal					0	0	0	0	3	6,173	0	0	0	0	0	0	0	0	0	0	0	0	U	0	3	6,173
	1	1		1																	1					

Description (TD011) SMMTT AN/BSY-1 TRAINER

AN/BSY-1 trainers support shorebased training for crews of SSN 751 Class submarines fitted with AN/BSY-1 the integrated Combat Control / Acoustic (CC/A). CC/A Team Trainers support subteam training in combat control and acoustics as well as full combat system team training.

											DATE:																	
SIMULATOR AND TRAINING DEVICE JUSTIFICATION											Veapon System IOC Date														ebruary 2002			
Appropriation/P-1 Line Item Other Procurement, Navy / LI: 5661										Weapon System											,							
Training	eni, navy		Ready for	Average					l									1										
Device				Student	Prio	Prior Years		FY 2000		2001	FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total			
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
 TDO12 SUBMARII 	 INE BATTL 	ا E FORC. ا	E TAC TE	RN I																								
BFTT c/o DE\Sqdr COSTD HLA NAW		Nov-01 Nov-02	Nov-01 Nov-02						1	107	1	200																
Total					0	0	0	0	1	107	1	200	0	0	0	0	0	0	0	0	0	0	0	0	2	307		
Description																												

Description

(TD012) SUBMARINE BATTLE FORCE TACTICAL TRAINING (BFTT) DEVICE MODS

The Submarine BFTT device consists of a carry-on unit that will provide the CO/OOD with a display depicting the position and modes of each participant and target in the BFTT scenario.

It will consist of a computer and interface equipment with software designed to interface with and interpret the BFTT system, and to receive and transmit tactical data using own ship's communications equipment.